into the spacerace, Page 2

Broad agreement among the 12 on what Downing Street calls "maintaining the freedom of our so-

European trade unions are al-

ready up in arms because "Mrs

Thatcher could not find the time to

receive a trade union delegation" in

It is usual for the hnst at an EEC

Business summary Sikhs kill St Gobain **24 Hindus flotation** in Punjab success 'assured' massacre

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bus passengers and wounded eight others in northern Punjab state, prompting fears of a backlash.

World news

At least four gunmen forced a 45-seater bus off the road in a remote area and ordered all the Hindu passengers out. They escaped after shooting their victims at close

It was the biggest massacre of Hindus in Punjab since extremists shot 14 Hindus at Mukhtsar in July, an incident which led to Hindu-Sikh riots in Delhi.

#### Bhopai go-ahead

The Indian Government and Union Carbide cleared the way for court hearings in January nu compensation claims totalling \$3bn over the lethal gas leak which claimed thousands of lives in Bhopal two years agn. Page 3

#### Taiwan return foiled

Hsu Hsin-liang, outspoken critic of the Taiwan Government, failed in his attempt to return to his country when he was refused permission to board a flight from Tokyo. A violent confrontation followed between his supporters and riot police in Taipei. Page 5

#### Kremlin crackdown

Soviet leaders have ordered a crackdown on abuses in the country's police force and judiciary as part of a drive by leader Mikhail Gorbachev to root out corruption. Page 2

#### Vanunu in court

Former nuclear technician Mordechai Vanunu, accused of espionage and treason for telling a British newspaper that Israel was producing nuclear weapons, appeared in a Jernsalem court, his first appear-ance in public for two months. The hearing was adjourned.

#### **Basque election**,

The centre-right Basque Nationalist Party was last night heading for its JAPAN'S nine main electric power 'first regional defeat against Spain's utilities' combined pre-tax profits ruling Socialist Party in elections to surged 62.5 per cent to Y620.1bn the autonomous Basque Parlia-

ment, according to official esti- September. Page 23

PRESIDENT Ronald Reagan re-Sikh extremists shot dead 24 Hindu SAINT-GOBAIN, the French glass turned to the White House yesterand engineering group which is being privatised, has already been heavily oversubscribed. The issue

2%-

2%---

936

week.

GRID

the Danish krone, However, both

currencies traded within their div-

ergence limits, with the Danish

krone at 57 per cent of its maximum

divergence spread on Friday com-pared with 63 per cent the previous

The chart shows the two constraints

on European Monetary System ex-

Poston Nov ECU Panty

No. 30,098

Democrats to salvage his presiden-cy by supporting calls for a Water-gate style bipartisan committee of closes on December 5. Page 21. **EUROPEAN Monstary System:** The Congress to investigate the Iran Belgian franc remained weak within the EMS last week as renewed arms scandal. Mr Reagan, his popularity and credibility sapped by the growing controversy, is also under pressure dollar weakness pushed the D-Mark firmer. Disappointing US eco-nomic data saw the dollar fall below

to appoint a special independent the psychologically important DM prosecutor to replace the Justice Department inquiry led by his close friend Mr Edwin Maese, the US At-EMS Nov 23,1986 torney General. 2.25%

The White House has been thrown into disarray by the scan-dal, which has raised doubts about the President's judgments, his leadership and the competence of his

senior advisers. Sen Robert Dole, the Republican who remains majority leader until January, said Mr Reagan should call a special session of the 99th Congress, now in recess, to appoint a bipartisan commission on the lines of the Watergate inquiry led by Senator Sam Erwin in 1973. A special session of Congress would be the first in 40 years. Sen Dole, warning that the Presi-dent had to "come clean" fast to sal-

vage his authority and standing before the American people and Amweek. 2.00 level, which put further pres sure on weaker members of the sys tem such as the Belgian franc and

erica's allies, said in a reference to the Watergate scandal which day to face impassioned appeals brought down President Richard from leading Republicans and Nixon in 1974: "We can't afford another failed presidency."

calls for investigation

ROW GROWS OVER IRANIAN ARMS SCANDAL

BY LIONEL BARBER IN WASHINGTON

FINANCIALTIMES

EUROPE'S BUSINESS NEWSPAPER

Monday December 1 1986

Sen Richard Lugar, another strong Republican supporter of Mr Reagan, said yesterday that the President needed to clean nut some of his too White House advisers to stem the crisis: "He has to have a new beginning. Every policy is in shambles."

Criticism from the Republicans. Mr Beagan's own party, is doubly damaging to the President whn is already under heavy fire from the Democrat Party, which takes control of the Senate and House of Representatives on January 8 when

the 100th Congress reconvenes. More than 15 congressional committees are planning to open their own investigations into the scandal, which led to up to \$30m in profits from US arms sales to Iran being skimmed off to Contra rebels fighting the Marxist Sandinista Government in Nicaragua.

The money laundering was con-ducted by a key White House aide, the brightest" among House and Se-LT Col Oliver North, at a time when nate figures. Congress had hanned indirect and

direct military aid to the Contras, sombre Thanksgiving holiday at his according to Mr Meese who revealed details of the scandal last



calls for inqui Sen Dole said that !

tripping over eachest for was i point a bipartisr <sup>2</sup> full access to the form was b

He disclosed that he had discussed the matter with Sen Robert Byrd, who will become the new Se-CTA. nate majority leader in January and said that the commission's

President Reagan, who spent a mountain ranch near Senta Barbara, California, has yet to admit, as John F. Kennedy did after the Bay

of Pigs fiasco, thet he made a mistake. But there is growing scepti-cism that knowledge of the arms deals was confined in his Administration to Lt Col North and Vice Admiral John Poindexter, the National Security Adviser who resigned last

Mr Reagan also faces difficulties in the appointment of a successor to Mr Poindexter amid reports of in fighting among his advisers. Mr Do-nald Regan, White House Chief of

Mr Abshire is seen as a compromise cardidate, with right wingers urging the President to be bold and appoint a tough figure such as Mr John Lehman, Navy Secretary, or Ms Jeanne Kirkpatrick, former US ambassador to the United Nations. Others favour Mr Bobby Ray Inman, former deputy director of the

The debate over the National Se curity Adviser mirrors the lack of decisive action within the Administration and the failure of the Presilent to exert leadership, a frustrat

ed Sen Lugar said yesterday. The choice has been complicated by the fact that two leading conten-**Continued on Page 20** 

### **Expatriates** spurn UK vote role

By Peter Riddell, in London THE EXTENSION of the right to vote to British citizens living outside the UK has flopped, with only 2½ per cent of those qualified to do

so having registered to vote. Foreign Office figures show that by the last registration date of October 10, a total of 12,207 people had declared at British consulates abroad that they wished to be over-seas electors. This compares with the estimated 500,000-plus qualified expatriates under the terms of last

1831 Germany rockets

### حكذامنه لأحبل **Terrorism** and **Reagan urged to support** drugs to top **EEC** agenda

64225

#### BY QUENTIN PEEL IN BRUSSELS

D 8523 B

JOINT European action against terrorism and drug trafficking will be one of the two key items for the The issue has been given added forward than the other main debate EEC summit in London this week. urgency by agreement among the of the summit - on tackling unem-member states on the need for fur- ployment, speeding up progress tomember states an the need for fur-ther measures following last week's wards a single Common Market Berlin bomb trial.

British officials believe that much closer co-operation and ex-change of information between European police and security services Staff, who is resisting calls for his | - set in train by EEC interior minisresignation, is apparently in favour of Mr David Abshire, the former US representive to Nato. ship of the Community.

Mrs Margaret Thatcher, the Brit-ish Prime Minister, will be calling summit to see representatives of both employers and trade unions in advance. The ETUC said the latest on her fellow heads of government to endorse further joint action and a broad approach involving tougher grettable at a time when unemploycontrols at external EEC frontiers ment is very high, and poverty with easier movement inside the veloped countries." Community.

All the subjects in that debate – The trade union suspicion is that ncluding co-ordination and eventu- Mrs Thatcher will try to put all the al harmonisation of EEC visa pollcies, co-operation to avoid the abuse of passports, and a common policy on the right of asylum - are being pursued by the interior ministers. on promoting public and private in-vestment and infrastructure spend-Another meeting under the chair-manship of Mr Douglas Hurd, the British Home Secretary, is scheduled for next week after the summit. A preliminary report has been prepared by high-level officials.

Britain steps up pressure on EEC trade barriers, Page 2; Editorial comment, Page 18

ing, as favoured by the unions.

emphasis in the debate on greater

flexibility in labour markets and promoting small businesses

through deregulation, rather than

### **Turkey seeks deal on** workers' migration

#### BY DAVID BARCHARD IN ANKARA

TURKEY is to try to persuade the cember 1 deadline refers only to the EEC to agree a compromise on the completion of arrangements by the free movement of Turkish workers Community for the free circulation in Western Europe

Under the 1972 Ankara protocol not to actual migration. between Turkey and the Communi-Prof Bozer said, however, that ty, all Inrkish nationals should there had been no Community legal from today have the right to work counter-argument presented in a letter sent to him last week by Britin any EEC country.

Turkey regards the protocol as a ain in its capacity as President of binding commitment but is seeking the EEC. a compromise in return for increased aid and trading rights and for EEC agreement for it to become

He said the issue could be re-EEC-Turkey Joint Association Council "I would prefer to have a

meeting of the council beld as soon

However, meetings with Commu-

nity leaders, including Mr Claude

Cheysson, Commissioner for Medi-

terranean Affairs, and Sir Geoffrey

Howe in his capacity as President

**Continued on Page 20** 

as possible," he said.

of Turkish workers in Europe and

Singapore delegation to study Brunei bank affair

December).

None the less, in the wake of the posure to NBB alone was less, interest unpaid.

#### BY JOYCE QUEK IN SINGAPORE

seeking clarification on the finan-

cial position at NBB following a

raid by police last month and frand

charges against senior bank offi-

Tan Sri Khoo, who owns some 70

per cent of NBB, is not among those

sought by the Brunei anthorities.

change rates. The upper grid, based on the weakest currency in the system, defines the cross rates from which no currency (except the line) weekend in an attempt to assess the implications for the region's banking system of the closure of National Bank of Brunei (ABB), may move more than 2% per cent. The lower chast gives each currency's divergence from its "central rate" against the European Curren-cy Unis (SCU), itself a basket of Eu-

ropean currencies. (\$3.83bn) in the first half-year to central bank, led a team of four top officials for meetings with the Bru-nei Finance Ministry. They were

majority owned by Tan Sri Khoo Teck Pust, the Malaysian-born financier who is based in Singapore. Mr Joe Pillay, managing director of the Monetary Authority of Singapore, the island's powerful quasi-

SINGAPORES most senior finan- events, he resigned last Thursday Loans to Khoo interests were "fairtial regulator flew to Brunel at the from the board of Standard Char- ly well secured." His statement may lend some

tered Bank in the UK. In Singapore, the MAS moved to comfort to around 30 banks with an calm fears that the NBB affair NBB exposure which are hoping to could have ramifications similar to meet the MAS today in order to learn the results of its inquiries. those following the collapse of Pan-Electric Industries, a marine sal- Some 40 representatives of banks vage and property company, just in Singapore, local and foreign, met under a year ago. on Friday at the instigation of Naunder a year ago. tional Westminster Bank of the UK.

no lifeboat" (an emergency fund for control of the bank on November

stockbrokers which was set up last 20. He is charged with alleged false

Although total loans by Singa- fraud involving B\$1bn (US\$593m),

pore banks to Tan Sri Khoo's com- primarily through loans to interests panies exceeded the SS400m related to the Khoo family which

US\$182.3m) at stake in the Pan- are claimed to have been made

Electric collapse, he added, their ex- without adequate security and with

A MAS official said: There is no Mr Khoo Ban Hock, Tan Sri danger to our banking system. This Khoo's son who has been NBB time, there is no closure of the stock chairman, is one of five people ar-

exchange, no broking firm involved,

skilled staff, salaries in London

inflation has been only around 3

several of the big firms. Elsewhere,

management consultancy continues

financial markets. The high level of

ment, has stimulated investigations

the profession.

for tax advice.

TIFFANY building in New York mates based on more than half the ballot count.

#### Palestinian grip

Palestinian guerrilles tightened their grip on a hilltop village in south Lebanon in their continuing battle with Shia Amal forces. The PLO called for an emergency meet-ing of Arab foreign ministers to end the feuding.

#### Nixon papers on view

White House papers that former US President Richard Nixon once thought he could keep secret will be opened to public inspection in Washington today after a 12-year battle over their fate.

#### Pope's odyssey

Pope John Paul wound up a remar-kable odyssey through Australia that was hailed by commentators as a resounding success. In less than a week, he travelled 6,000 miles to the capital of every state and territory.

#### Soviet fireball

A Soviet newspaper blamed the carelessness of railway staff for an incident in which a cargo train carrying inflammable chemicals col-lided with a passenger train and burst into flames. Two people were killed and 23 injured.

#### Compulsory saving

Norway plans to enforce savings of 1 per cent of gross income for all earning above the equivalent of \$13,000 a year to dampen consume demand. The money will be deposited in fixed-interest accounts with the Central Bank.

#### **Cary Grant dies**

Appoint

Υ.

4

Carv Grant, the suavest romantic lead in cinema history, died at 82 after a stroke in Davenport, Iowa. Obituary, Page 17. Page 28

Companies ..... 21, 22

Companies ..... 24

ats ..... 17

UK ..... 6,7,8

CONTENTS

City is being sold by Pacific Realty, a closely held US property compa-ny, to Dai-Ichi Real Estate of Tokyo, for more than \$94m. BELL CANADA Enterprises' chairman Robert Richardson is retiring after three years and is being suc ceeded by Raymond Cyr, now president of BCE's telecommunications

subsidiary Bell Canada. AGRICOLA Finanziaria, the quoted subsidiary of Raul Garini's Ferruzzi empire, has reported net earnings of L28bn (\$20.5m) for its first six months to August, 5% times higher than during the same period in 1985.

BANK of Nova Scotia, Canada's fourth-biggest banking group, raised net income to C\$336.2m BY BARRY RILEY IN LONDON (US5243m) in the year to October 31, from CS393.6m in 1985. Page 23 A CONTINUING boom for the British accountancy profession will be revealed by figures to be released PLESSEY, the UK electronics and by several major firms of accoundefence group, has failed to break tants during the next few weeks. into the French market with its System X telephone exchange equipment. Page 23

ISUZU Cars (Great Britain), the privately owned company which im-ports Isuzu vehicles from Japan, has been placed in the hands of a receiver. Page 8

PETRO-LEWIS, struggling Denverbased oil and gas group which was one of the most aggressive market ers of oil and gas partnerships during the boom in oil prices, has defaulted on some of its debt payments and is considering filing for protection under Chapter 11 of the US bankruptcy code. Page 21

TOKYO Bond index, calculated by Namura Research Institute, covering Japanese domestic and yen-denominated foreign issues, will ap-pear every Monday in the FT. Today it is on Page 22. In Saturday's half-day stock-exchange session in Tokyo, the Nikkei index rose 242.48 to 18,325.5. Leading share prices, its important consultancy opera-

- London..... 28, 29

tion.

#### First off the mark is Ernst & Whinney, the fifth-largest firm in the UK, which today reports a 22 per cent increase in turnover to inflation 289m (S126m) in the year ended An- per cent. gust 31. This expansion is said to have created \$20 jobs. Mr Elwyn Eilledge, senior partner, said that a key factor was our

ability to continue to improve the quality of service to existing clients while at the same time attracting new husiness However, it is not clear that Ernst & Whiney's growth rate will turn out to be particularly high by the standards of the big firms as a

whole. Price Waterhouse, for example, will also reveal a growth in turnover of more than 20 per cent when it reports in two weeks' time. Arthur Andersen, meanwhile, says that it has achieved growth in real terms (that is, chargeable hours) of more than 25 per cent in

**Boom in UK accountancy firms** continues with latest figures Turnover figures for accountants within the financial services indus-

are to some extent being swollen by try lave generated an enormous -the big pay increases which are be-and price-insensitive - demand for ing built into their hourly charging advice on systems and manage-rates. With fierce competition for ment controls, leading to the hectic expansion in the big accounting have been rising at more than 10 firms' management consultancy diper cent a year even though general visions.

rested since the sultanate seized

Mr Don Hanson, UK senior partner of Arthur Andersen, cautioned Nevertheless underlying real ex- that the dependence nn financia pension has been very strong. Al- clients might prove risky. "We though growth in auditing has should consider what could replace usually only been modest, increases the financial sector as the main of the order of 10 per cent in charge- source of revenue," he said. "We able hours in tax work is claimed by need to make sure there will be life after Big Bang."

But he and other senior partners to be the leading growth activity of remain optimistic. "We expect our the profession." "We expect our encouraging rate of growth to con-Much of the growth of the profes-sion is linked to the buoyancy of the Price Waterhouse. ue," said Mr Jeffery Bowman of Mr Eilledge of Ernst & Whinney

takeovers and new issues, including pointed out that last year's results privatisation offers by the Govern- were boosted hy new audit clients were boosted hy new andit clients such as British Coal, Currys and the work and has created new public Post Office. On the basis of further company audit clients. Growing audit gains including the London wealth of individuals, as well as Docklands Development Corpora-companies, has stimulated demand tion, Nabisco and MFI, he confidently forecast that Ernst & Whin-

Moreover Big Bang and other ney would continue to grow at the less dramatic structural changes recent rate.

THE International ...... 2, 3, 5 Construction ...... 12, 30 word ...... 28 Currencies ...... 34 MONDA ditorial comment..... 18 Eurobonds ...... 21 PAGE Letters..... 19 INTERVIEW rd..... 19 Mr Ken Olsen, o **Digital Equipmen** Corp of the US, talks to Terry

Dodsworth,

Page 14

Spain ...... Section IV

ear's Representation of the People Act extending the franchise. a full EEC member before the end Only those registered by October of the century. 10 will be able to vote in any British

Professor Ali Bozer, Minister of general election when the 12-month State for EEC affairs, said he register comes into effect next Febplanned to visit all EEC capitals in ruary. That covers any summer or the next few weeks to press Tur-key's case. He said he intended to The Foreign Office admits that it include a visit to Greece. EEC lawyers are thought to be

would have preferred to have seen **Continued on Page 20** pressing the argument that the De-

autumn general election.

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### **OVERSEAS NEWS**

company.

Paris nears

Norway gas

decision

Sez.

century.

### Britain steps up pressure for end to EEC trade barriers

Erasmus project abandoned

A POPULAR plan to promote stu- drawn by the European Commis- of Government to produce ideas for dent exchange between member sion, after it became obvious that a "people's Europe," would have states of the EEC, intended to bring EEC education ministers were un-spent Ecu 175m (S183m) on travel

Mr Mannel Marin, the hot-tem-

day-long meeting - and just after a

**Kremlin anti-corruption drive** 

trade barriers between com-munity member-states.

2

The community trade minis-ters will gather in Brussels this morning to start what promises to be a marathon perceivation morning to start what promises progress it has made as EEC to be a marathon negoliating chairman in lifting common session over 16 sleps lowards market barriers — and pain-the creation of a free internal fully aware that today might

Luropean market. The list, selected by the UK, covers a disparate but in many cases crucial range of propo-sals. They include the opening up of public purchasing to other EEC states, the esting of the year. The the protection of micro-circuit design copyright. Each measure has been blocked by fairly minor objec-tions from at least one member-state. Mr Alan Clark, the Britisb Trade Minister, who will be chairing the meeting is expected to emphasise that if his ministerial colleogues do not lift their objections during today's debate, they face the prospect of being out-voted

not lift their objections during If today's meeting falls to today's debate, they face the make substantial progress, prospect of being out-voted Mrs Thatcher is planning to re-

BY QUENTIN PEEL IN BRUSSELS

University Students - was supposed

tions in Brussels.

abandoned in a welter of recrimina- which it would be carried out.

gramme - European Community sponsible for education policies, Actico Scheme for the Mobility of suddenly announced at the end of a

to encourage study across EEC compromise proposal had been frontiers for as many as 10 per cent of the estimated 6m higher educa-tion students by 1992. The Commission's plan, in line

crackdown on ahuses in the coun- resumption of an anti-corruption

try's police force and judiciary as campaign initiated by Mr Yuri An-

A decree from the policy-making clean up the law.

On Friday, the proposal was with- with the exhortation of EEC heads states.

BRITAIN will try to put next year, when the introduc-severe pressure today on its 11 tion of the European Single EEC partners to agree to a Act will permit more majority in London at the end of this package of measures to scrap voting.

Britain is determined to avold teaving a tangle of uncompleted tasks for the Belgian presi-dency to take on at the turn of

the year. Both countries, along with the Netherlands — the pre-vious EEC chairman — have

### climbdown over universities By David Housegn in Paris MR JACQUES CHIRAC, the French Prime Minister, las t-

Chirac in

night offered to modify the Government's controversial university legislation to meet the critias of students and university teachers opposed to the Bill. In a television broadcast, Mr Chirac proposed a week to 15

days of consultation during which the Bill could be amended

when the bill cours be amended before being submitted again to the national assembly. Mr Chirac's proposal came as students prepared to endorse to-day recommendations by their leaders to go ahead with a large matter markle on Thursday protest march on Thursday.

The recommendation came despite the Government's deci-sion on Friday to withdraw the legislation from the floor of the national assembly after only live hours of debate and send it back for discussion in committee. Taking full responsibility him-

self for the Bill, the Prime Minis-milersu and that there had been mis-indersu andings and mistakes on he Govi rnment's behall.

red negotiations on all points in dispute - ad-He offe and there edures, entry lees tion given to oni-

versity a meeting be held with other Cabinet calmisters on Saturday to discuss how to handle an issue that was beginning to divide his administration and put strains on "combitation" - the difficult exercise of power sharing be-tween the Government and Pres-tions the transity different

Reflecting the growing belief within the coalition that their problems are in part due to Mr blitterrand's subtle undermining of the Government in public, Mr

It is the first time that a senior minister has publicly critiched

Over the university issue. Mr Chirac faced conflicting pressures from his supporters. Reflecting the views of those on his right wing, the daily Le Figuro warned on Saturday of the damgers of allowing the law to be dictated by street agitation.

On the other hand, the cen-trists leaders of the UDF - Mr Chirac's coalition partner - have counselled prudence in running against popular ophilon.

BY DAVID MARSH IN BONN WEST GERMANY is laying sonic alreroit the size of a jumbo its general attempt to catch up plans to forge ahead in the jet, which would carry piggy- in aerospace with France, which space race of the next cectury hack a second rocket-powered has dominated the post-war -based on liceas drawn up nrhiting vehicle. It is based on technological partnership her. The idea, for which hold

-based on ideas drawn up obring the Second World War for a focket-powered serosplane to bamb US cities. An ambitious project to de-relop the so-called Saenger iwo-stage space aeroplane has been backed during the last year by DM 2.5m (1884,000) from the Bonn Government and Messer. The Saenger plans, pursued Bonn Government and Messer-schmitt Boeikow Biohm (MBB),

BRITAIN BACKS HYPERSONIC AIRCRAFT PLAN

The Saenger plans, pursued independently of work on the V-1 "Rying homhs" and V-2 rockets which caused havoe in London and other European cities during the closing months of the war work not realignd the country's largest acrospace

The 11-nation European Space Agency, which co-ordinates Europe's space effort-, of the war were not realised. A test facility was established on the Luencburg Heath in north Cermany ond destroyed after the war. The heath is now used for training manoeuvres by the British Army. is now examining proposals for-mally submitted last week, for West Germany to pool expertise on Saenger with Britain, which is backing a different futuristic space vehicle, Hotol.

The West German project ceptres on studies on a hyper-

BY JOHN WYLES IN ROME

TTALY MOVED closer towards

tween the two countries.

"We are now more self-con-fident." says a top official in the Technology Ministry in Bonno.

Saenger, which would cost an estimated \$12bn (£8.37bn) to bring to fruition over the next 20 years, is technically feasible. says Mr Ernst Hoegenauer. deputy manager of MBB's space systems group in Munich.

Mr Hoegenquer, a veteran of more than 20 years of joint European efforts in space, who worked with Professor Saenger before he died in 1964, says the project should be pursued as a collaborativa European programme. But he has also had talks in

West Cermany'o determina- the US, with, among others Gen-tion over Saenger underlines eral Electric and the Defence transport.

Bonn rockets into the space race

Britain and Germany, have pro-

. . . . . . . . . . . . . . . . .

mised to pool expertise, has generated suspicion in France. The French national space agency. CNES, has developed ideas for another, less advanced orbiting transport vehicle. Hermes, planned to fly in the

This is now being backed as a full ESA project, led by the French but with West Germany putting up 30 per cent of the costs of the design phase.

Mr Hoegensoer says Hermes is a stepping stone to the more ambitious Samger and Hotoi amplitude sharef rom providing; much cheaper ways of liftin; objects into space. Soenger and Hotol could provide the breakhypersonic airliners for carth

through towards establishing Italy may face early election

Democrats .

The Republican broadsides are vivid evidence of the pre-electoral atmosphere now gripplac Rome. The next general elections are not due until 1985. None of the government and opposition parties want them advanced, but most are in-creasingly dubious that the post-Craxi government will be able to avert them.

Mr Spidolini's speech was at Mr Spadolini's speech was at the same time an attempt to stake out a negotiating price for eventual Republican partici-pation in a CD-led government and to position his party in the event of an uncontrolled crisis leading to elections... Much of the present political unrest is due to evidence af weakness and disarray among the Christian Democrats them-scives.

Scives.

#### FINANCIAL TIMES

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SOVIET leaders have ordered a The decree appeared to signal the affected, the vital interests of citi-It instructed the president of the

part of a drive by Mr Mikhail Gorb-achev, the Soviet leader, to root out who sacked Mr Nikolai Shcholokov, Supreme Court, the public prosecu-tor, the ministers of interior and corruption and reform Soviet soci-ety, Renter reports from Moscow. in 1962 at the start of a drive to justice and the chief state arbiter to ensure that bodies under their command eliminated aboses and strictcentral committee, published yes-because the crackdown as an terday in the Communist Party inalienable part of social recon-Describing the crackdown as an ly observed the law. In addition, it said, local elected

newspaper Pravda, ordered the struction - the catch-phrase for Mr bodies were to keep watch over the country's law and order officials to Gorbachev's reform drive - the de- activities of the take immediate measures to end vi-olations of the rights of citizens. Gorbachev's reform drive - the de- activities of the take immediate measures to end of the rights of citizens. activities of the police and court in their areas to prevent any miscarri-

The so-called Erasmus pro- pered Spanish commissioner re- poorer member states such as period of time, to ensure it provided balanced mobility between member

sponsible for education policies, Greece, Spain and Portugal. The amount of money in the programme was opposed by Britain, France and West Germany, and they also wanted it reviewed after e

home the relevance of the Communable to agree on its financing, its expenses, cost-of-living allowances nity to ordinary people, has been duration or even the legal basis on and grants for students on exhanges. It had the enthusiastic support of ident Francois Mitterrand.

Albert Chalandon, the Minister of Jastice, said yesterday that cohabitation had perverse and permicious effects.

combitation in terms long veloced by Mr Raymond Barre, the for-mer Prime Minister.

early elections at the weekend when the leadership of the Republican Party threatened 10 withdraw from the five-party coolition government next By Max Wilkinson, Resources Editor THE FRENCH Government is THE FRENCH Government is expected to announce tomorrow whether it will cancel its con-tract for a share in the \$60hn (£42hn) purchase of gas from the giant Troli field in the Norwegian sector of the North Sec. spring. spring. Claiming that the mem-bers of the present government were not able to agree on any-thing, Mr Clovanni Spadolini. Defence Minister and Republi-can Party leader, told the party'a national council: "I declare to

Ser. France was demanding a guaranteed ahare of the con-tract work, which the hor-wegian authoritics were unwill-ing to concede. Troll is the lorgest gas field in Enrope. The International Energy Agency in Paris bas said it is of great strategic importance in helping to secure Europe's supplies well into the next century. yon that the Republican Perty is not available (for govern-ment ofter March 1987) unless there is a profound and radical rethink of policies." Despite holding only 5 per cent of the vote, Republican participation is crucial to the

future of any centre-led government. To the surprise of many observers, both Mr Spadolini

France's 40 per cent share and the party's president. Mr in the contract, agreed with a Brono Visentini, heaped much consortium of European gas of the blame for current dis-buyers, was seen as essential array in the coolition on the if the full project involving dominant Christian Democrat ship was trying to "liquidate" the joint development of the Party which is due to take over the smaller lay parties — the Troll and Sleipner fields, and the premiership from the Socia- Republicans, Liberals and Social

### IG Metall seeks hours cut

in exchange for rather vague in exchange for rather vague increase cultural and industrial co-operation between the two informations. The recalcitrant attitude of 27m members between the two alloas.

as soon as it is securely floated West German motor industry. overtime into the private sector. The union brought the a month.

They suggest that the coun-try is just about on track to meet the Government's target of an average rate for the year of 6 per cent. list Mr Bettino Craxi next March

or April. Traditionally closer to the Christian Democrais than the Socialists, the Republican leodership bitterly accused the

ITALY'S annual rate of inflation fell below 5 per cent in November for the first time in 15 years. Figures released by

the government statistical institute show an annual rate

of price increases of 4.5 per cest compared to 5.1 per • 3nd in October and 8.6 per cent in November 1983.

CDs of ineffectiveness. Mr Visentini questioned whether there was any justifi-cation for the Socialists hand-ing over the premicrship. Mr Spadolini said the CD leader-ship was trying to "liquidate"

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new pipelioe were to go ahead.

The indicotions last night were that a compromise would be reached, with France agreeing reduced purchases of gas in exchange for rather varue undertakings from Norwoy to increase cultural and industrial

The recalcitrant attitude of France has raised the possi-bility that British Cas will re-open negotiations with Norway

THE West German engineering industry to a standstill in 1984 union IC Metall said yesterday with a seven-week strike for a

2.7m. member union would would stage worning strikes is present these demands today to negotiations failed. The union all employers, including the said it would elso demend an overtime ceiling of 10 hours

### We're changing our name.

chan

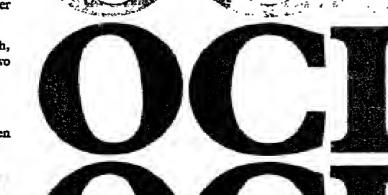
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### Argentina ready to reform the **public** sector

BY TEM COONE IN BUENOS AIRES

duce public sector reforms aimed at improving efficiency and reducing costs in both centrai government and state-run. enterprises.

Research

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The Government has long con-sidered the reforms as a neces-sary complement to its anti-inflation strategy and its longterm goal of carrying out a structural reform of the economy. Partial finance for the changes is expected to come out of a World Bank structural adjustment loan : of \$450m (£244.15m).

weekend, President Raul Alfon-sin said the reforms would cover three main areas: a reduction of central government employment, an overbaul of the public sector wage structure and a reorganisation of steterun companies.

Fun companies. Public sector employment is to be reduced by 20 per cent in the next three years, President Alfonsin insisted there would be no compulsory lay-offs. Workers accepting voluntary redundancy would receive a lump sum of Australes 3,500 (52) 2010 plus constitution (£2,071) plue a continuation of salary for between six and 12 months\_ depending on length Unification of salary scales in

the state sector is to be introduced elimineting inter-minis-terial differences which have caused many lahour disputes. At the same time, those at the upper end of the salary scale are to be given hig increases move to attract: and keep better-trained workers. Smaller adjustments for the lower paid will be used as an in its three years in office.

BY DAVID GARDNER IN MEXICO CITY

**Tokyo finance deal agreed** 

as Mexican leader flies in

PRESIDENT Miguel de la tors ranging from cars (Nissan) Madrid of Mexico arrived in to tobacco (Nisshoeyiwai), and

Tokyo yesterday on a state visit an increasingly visible presence sweetened hy an agreement last in tourism. The \$100m Hotel Friday on \$1bn (£697m) in pro- Nikko in Mexico City is close to

loans for Mexico.

ARGENTINA is shortly to intro- incentive to persuede semiskilled and unskilled employees to accept voluntary redundancy. ment and Union Carbide last night cleared the way for Meanwhile, many state-run enterprises are to be pnt under the control of a new holding company headed by a ten-man management hoard to he drawn primarily from the private sec-tor. The Public Works Minister would absorb about 290,000 emconrt hearings on compensation claims totalling \$3bn (£2.09bn) to begin next month. ployees, a turnover of \$7bn a

ruled that Union Carbide could go ahead with financial restructuring it had been planuing for its international operations, having received its assurance that it would weinter preservables assort year and "losses of several hundred million dollars per year." f244.15m). The management board and In a television speech at the an overseeing inter-ministerial veckend, President Raul Alfon- committee will set planning maintain nnencumbered assets totalling \$3bn. This is the figure that 10 days ego the Government said was the total of compensation claims guidelines for the state sector companies, which in future will be expected to be run on more it was handling collectively for about 520,000 people. profitable lines. Until now there has been little co-ordination between that

Official and legal delays and wrangles have taken up most of the time since the gas leaked on December 3 1984 from Union Carbide's pestistate-run enterprises. Manage-ment in the past has been dic-tated more by politics than cides plant, leaving a trail of death and injury in slam economics. President Alfonsin met Mr

Saul Ubaidini, heed of the powerful General Confederaareas. Now the two parties are to file written statements on their counter claims about tion of Workers, last Friday in an ettempt to renew talks be-tween the government and unions which broke down earlier this year because of diftheir counter claims about responsibility for the acci-dent. January J2 has been set as the day when the main legal bearings will begin in Bhopal, possibly lasting for several months. ferences over the Govern-ment'e ecoonmic policies.

President Alfonsin said later: "I am convinced we are going The Government is claimto begin a new dialogue." But he warned: "It will have some ing against Union Carbide's international parent company in the US. But the company difficult facets and at times will border on conflict." The workers' considerations has has responded first by saying the accident was caused by an employee's act of sabotage organised seven 24-hour general strikes against the Government

and then by seeking to place the blame on the central Indian Government and the state government of Madhya Pradesh, of which Bhopal is the capital. Financial restructuring and

asset disposal plans drawn up by Union Carbide to strengthen its base in the wake of its successful defeat last January of a takeover bid from Gaf made the Indian Government suspect that the group's international assets would be run down to such an extent that it would

not be able to meet compensation awards. This led the Government first, to ask for an order blocking the company's plans and then to name \$3bn as the claims figure. Yesterday in private negotiations in front of the Bhopal court judge, Union Carbide agreed

to let two valuers chosen hy the indge examine its pasets every three months to ensure they have not fallen below the agreed figure.

.But the company has stressed that its acceptance of the \$3bn figure does not amount to an admission of

### **OVERSEAS NEWS**

Prime Minister,

#### DATE 2.8 JAN 1987 CABINET BRIEFED ON TEHRAN LINKS Israeli arms salesman admits hostage role

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#### BY ANDREW WHITLEY IN JERUSALEM

A KEY Israeli middleman in first time by the "Iran Trolks" the shipment of US-made arms ---Mr Yitzhak Shamir, the hearings to Iran has acknowledged act-By John Elliott in New Dehii ing as intermediary in success- Peres, Foreign Minister, and ful efforts last year to secure Mr Yitzhak Rahin, the Defence TWO YEARS after a lethal the release of an American hostage being beld in Lebanon. Col Ya'acov Nimrodi, an arms gas leak in the central Indian city of Bhopal claimed more than 22,300 lives and disabled dealer who served as an Israeli between 30,000 and 40,000 people, the Indian Govern-

**Court** gives

go-ahead

for Bhopal

The Bhopal District Court

military ettaché in Tehran during the 1970s, said he and others he did not name had intervened with "certain ele-ments in Tehran." This fol-lowed a meeting in Israel with at top government official, at been highly acrimonious.

which he had been asked to use his good offices. As a result of their efforts, that profits from the Iranian arms sales went to fund the US-

provide up to R1.2bn to finance

cheap housing.

backed Contra rebels fighting the Rev Benjamin Weir was freed in September 1985 by his captors, the pro-Iranian fundathe Nicaraguan Government. mentalist group Islamic Jihad. flatly insist that the Govern-In a statement to Ha'aretz, ment was uneware of any dealthe Israeli daily, Mr Nimrodi ings with the Contras. Howsaid thet after the release of ever, yesterday's He'aretz the American clergyman be quotes an unnamed senior and his associates were government official as blaming requested to stop handling the Israeli middlemen for "meddlissue. Who made this request ing " in the Swiss bank eccount is not specified—but the set up to handle receipts from implication is that it came from the Iranian arms sales.

the Israeli Government. Mr Eliakim Rubinstein, the spokesmen." The full coalition Cabinet Cabinet Secretary, said yester- What appears to have pro-was yesterday briefed for the day he had no idea whether the voked the arms dealer into

Mr Shimon Minister — on the country's arms dealings with the Khomelni regime. No details of the discussions were revealed. But given the hostila public positions adopted in recent days by several senior ministers, the debate is likely to have Questions will have focused in particular on the allegations

> ate or not. He repeated that everything Israel had done had been in accordance with re-quests from the US Government "through authorised

minent Israeli husinessman being linked to the arms affair, FORMER nuclear technician Mr Mordechai Vanunu (left), Mr Al Schwimmer, are understood to be pressing for an accused of espionage and treason for telling a British official clarification from Jerusalem on their claim that their newspaper Israel was pronewspaper israel was pro-ducing atomic weapons, ap-peared in public yesterdey for the first time in two months, Reuter reports from part in the transactions ended 1984.

Jerusalem. Mr Vanunu, 31, appeared under heavy guard et Jeru-salem district court for a closed-door hearing to re-mand him in custody until the end of his trial. The court put off the hearing after his lawyer, Mr Amnon Zichroni, demanded the proceedings take place in public. No new date was set. Prime Minister.

Mr Nir has retained h's post under Mr Sbamir, who took ver the coalition Government in October, hut his departure ma not be long coming. Even before the Iranian arms scandal broke in the US, Mr

hreeking his silence is a com-bination of the US Justice Department's investigations into the handling of the Iranian arms transactions and, in Jerusalem, continued stone-walling by the Israeli Governthe handling of the Iranian arms transactions and, in Jerusalem, continued stone-walling by the Israeli Govern-nent on the entire imbroglio. Mr Nimrodi and another pro-

Shamir is known to bave wanted to replace Mr Nir with

Israeli officials continue to Nimrodi statement was accur-

### finance a largely salf-build more black bomes in "wbite" bousing programme for low-South Africa, is at least 600,000

income bouses for all racial units. groups, although the bulk of funds is expected to he allo- relief programme, the Depart-cated to blacks who only this ment of Manpower and year heve been granted free-bold property rights.

housing, after decades of The trust is expected to be governmental refusal to build by granting bridging loans

S Africa trust aims to tackle black housing backlog BY ANTHONY ROBINSON IN JOHANNESBURG SIX MONTHS after the South Fred Du Plessis, chairman of "prescribed status," thus quali-fying for inclusion in the obligatory deposits required African government abolished Sanlam, the largest Afrikaaner influx control and opted for a insurance and industrial group. policy of "orderly urbanisa-tion," a new housing trust bas R400m into the trust and will been created in which govern-ment and private business will rend nominel shares with

related. Both interest and capital repayment will be guaranteed by the state. The intention is to raise at least RS00m over the next three

CONTRACT OF

tutions and will be market-The new trust, called the issue loan stock through the South African Housing Trust Johannesburg Stock Exchange. Limited, will be chaired by Dr The scrip will be given years. The eim of the trust is to

from benks and financlel instltake up 1,000 of the 10,000 one-rend nominel shares with privete companies subscribing to the remainder. The trust will

As part of its unemployment

By conservative estimates, basic huilding s the existing backlog in black past 18 months.

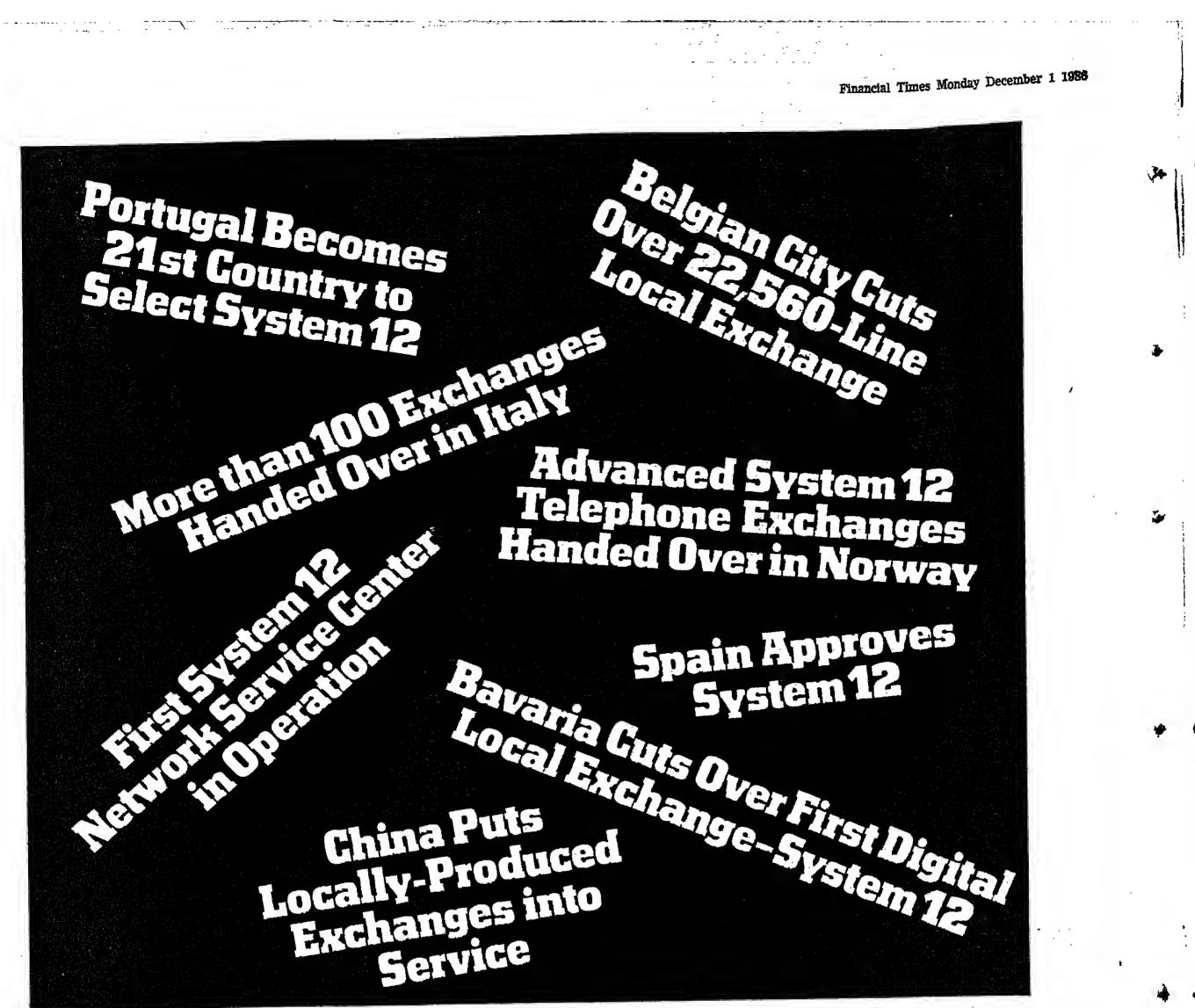
ment of Manpower and Training has trained more than 74,000 unemployed workers in basic huilding skills over the

The trust is expected to begin

soon after Mr Peres became Prime Minister in September Liaison between the Peres Government and the White House over the arms subter-

fuge is believed to heve subsequently been handled in Jeru-salem hy Mr Amiram Nir, who beld the shadowy post of counter-terrorism adviser to the





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### **OVERSEAS NEWS**

### Angela Dixon on some unexpected turns during one of the Arab world's largest international events Dubai in dramatic leap on to the world chess stage

A LEADING Opposition figure failed in his attempt to return to Taiwan yesterday after the airline on which he had booked his flight refused to

**Opposition** 

figure fails

in bid to

1 1988

allow him to board. Mr Hau Hsin-liang, an out-spoked critic of the Taiwan Government, has spent the past several years in the US after being convicted in the

past several years in the US after being convicted in ab-sentia of treason. The Government has charged Mr Hsu, a former elected official, with derelic-tion of duty after a riot sparked by allegation of election frand on the part of Nationalist Government offi-cials erupted in his com-

Nationalist Government offi-cials erupted in his con-stituency in 1977. Mr Hsu is seeking to return to Taiwan during the run-up to December 6 elections for-supplementary seats in Parlia-ment and the National Assembly. Many, both within the ruling Nationalist Party and the newly formed quasi-legal. Democratie Progress Party.

Democratic Progress Party, feared that Mr Hsu's presence during the campaigning and elections might destabilise the

Should he land in Taiwan, Government would have no choice but to arrest him or deny him entry. Those options could easily spark demonstra-

reach Taipei By Robert King in Taipei covered wih instant lawns and petamias.

> The event is the 27th Chess Olympiad—possibly the largest sporting occasion, with over 1,000 participants, to be staged in the Arab world. It was also the venue for the election of the next president of the Inter-national Chess Federation.

Dubai is no stranger to internetional sporting events-the annal horse show attracts top riders from all over the world nders from all over the world —and it has welcomed the olympiad with open arms, fill-ing the huga bangar-lika halls of the trade centre with chess tables and laying on thrice-daily television broadcasts, plus a round-up of the outstanding games every evening

a round-up of the outstanding games every evening. In return, the tournament has supplied an abundant crop of drama and surprise, includ-ing the unusual spectacle of the Soviet team not only drawing in its matches against Yugo-slavia and England, but even losing some games. This was in spite of its heavyweight team, which includes world champion Kasparov and the three other top-ranking Soviet players, Kampov, Sokolov and Yusupov. Another surprise was the un-expected victory of the Spanish over the English team. England had succeeded against all the other strong contenders, and had gained a clear lead by the



Gary Kasparov contemplates his next move

end of the sixth round. Victory against the Spaniards seemed sure, but the latters' win, with 31 to England's 1. was, in the words of Nigel Sbort, "devastating." After the match, Tony Miles created Dubai history by de-claring on local television that

he was going off to get drunk. He later—soberly—admitted: "The Spanlards played brilli-antly, and we played badly."

in Britain perhaps as an enthu-siastic and knowledgeable rece-borse owner, publicly carpeted the organisers. Some of these, he claimed were seeking publi-city for themselves without regard to tha interests of the UAE in general and Duhai in particular.

Further drama ensued when

The UAE has some very strong chess pleyers. These include a young Junior World Champion from Duhai, Nasr Ahmed Saced, and his brother, Saced Ahmed Saced, who un-accountably failed to ba in-cluded in the UAE team. The team did not come anywhere team did not come anywhere near the top in the tournament results. The Shaikh bad some words to say on that subject,

ever, the Soviets have not had a walkover at this Olympiad.

ever, been criticisms.

the England team lodged a for-mal complaint against the Spanish team's Russian coach, on the grounds that he had Criticism from other quarters cama mainly from the hotel industry, which was taken aback at the low rates imposed by the advised a member of the team on a move after a draw had been offered by the English opponant. With only one day to go, the government for room-mates chargeable to the chess teams and delegates. This is at a time England team are still among the first three, with the US and Soviet Union. For the first time. of year usually accounted

Dubai is no stranger to The organisers have managed international events and this large-scale event with great success and the opening cereit has welcomed the mony in particular was a brilliantly staged occasion with spectacular fire works and a chess game played with live chess pieces. There have, how-Olympiad with open arms. In return, the tournament has

provided an abundant There were some red faces when the powerful and re-spected Shaikh Mohammed hin-Rashid al-Maktoum, best known crop of drama and

surprise among the busiest for hotels in

the Gulf. One or two hotels said they were glad to make their contri-bution to the event. Some, however were not used by the visiting chess teams.

If the outcome of the Olympiad was still unclear right up to the last moment, the result of the International Cbess Federation (FIDE) presidential election has been no cliffhanger. The Brazilian candidate, Lin-coln Lucena, unexpectedly stepped down at the last moment in favour of his rival the sitting candidate Florencio Campomanes, in spite of the vigorous lobhying throughout the fortnight hy Lucena's sup-

porters. The fact that Dubai has been the setting for the Chess Con-gress bas been helpful to Mr Campomanes' strong candidacy. Dubai openly declared its sup-port "for," at the ontset of the olympiad

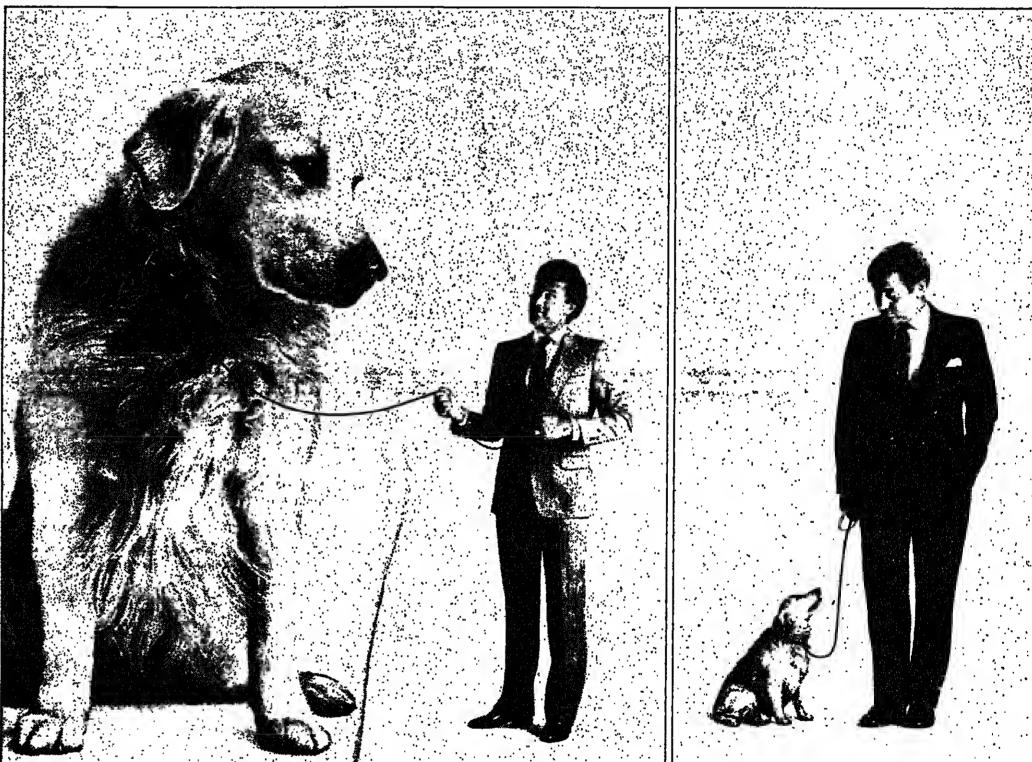
The high attendance of third world delegations was another factor in his favour. Many of these might not have been here but for the generosity of the Dubai Government, which donated airline tickets to an estimated value of \$100m (£71m). Most of them were considered likely to give Campomanes their vote.

The han on Israel participation also gave a boost to Cam-pomanes' hopes, since Israel might have heen expected to vote against him, while the consequent protest withdrawal from the event of the Scandi-navian teams and others can have only further strengthened his hand.

Although Gary Kasparov openly opposed his re-election, the official Soviet stand was in favour of the Filipino. One further contest, howaver, semature. This is the view which

remains. This is the vote which FIDE is expected to take on future policy regarding the ex-clusion of teams on political grounds. If the vote endorses this policy, it will mean that

this policy, it will mean that Israel, among others, may be banned from future Olympiads. Whatever their feelings on individual countries' politics may he, a nnmber of nations, notahly the US, would he un-bappy at the application of the principle of exclusion on poli-tical grounds. The outcome of the wate on this motion there the vote on this motion, there-fore, could seriously affect the future of international chess and its result is awaited with



### **Police close** off central Seoul

By A Special Correspondent MORE THAN 79,000 rlot

police closed off central Scoul at the weekend to suppress a demonstration called to support con-stitutional change in South Korea.

The demonstration had been called by the country's main opposition group, the New Korea Democratic Party (NKDP), to press for the direct election of the president, and to regain the political initiative as a strong challenger to the Governmen

But the government of President Chun Doo Hwan went to extraordinary lengths to see that few, if any, could

to see that few, it may, could, attend the rally. Taxi drivers were told not to take young people to central Secul; underground, stations in the vicinity of the proposed demonstration site -a schoolground — were closed; and, tear gas was liberally used to break-up groups near the school. Opposition political leaders were also restrained from

tonnage By Kevin Brown,

Llody's Register, the indepen-dent London-based ship classi-fication society, said the fall amounted to 2.7 per cent of gross tonnage, reducing the field from 416.3m tons to 404.9m tons.

1982, when total tonnage began to decline, for the first time since the early 1930s. The pre-vious biggest fall was 3.9m tons in 1984. The figures, reflect the deep recession in the shipping in-dustry, which has led to a sharp fall in orders, for new vessels and an increase in scrapping. In a scoarate series of figures In a separate series of figures based on calendar-year returns,

ber of ships launched in 1985 was 1,817 totalling 17.2m gross tons, compared with 1,962



merchant

The world fleet has now fallen by 4.6 per cent since 1982, when total tonnage began

Lloyd's Register said the num-

SHIPPING REPORT

### Transport Correspondent

### THE SIZE of the world mer-chant fleet fell by 11.4m gross

### tons in the year to June 30record

**New Delhi** 

5

#### down 18% By John Elllott in New Delhi INDIA'S trade deficit fell by 18 per cent to Rs 33.81bm (£1.9hm) in the first six months of the current financial year to

trade

deficit

the end of September, compared with the same period last year. This follows a 66 per cent increase in the deficit during the whole of 1985-86 which caused considerable concern about the country's balance of payments problems in the next few years.

But exports have recovered and rose during the first six months this year to Rs 58.57bn, nearly 17 per cent above Rs 50.17bn in the same period

last year. Imports rose hy only about 1 per cent to Rs 92.39hn from Rs 91.41hn. During the past few months, the Government bas introduced a range of export incentives

which the Ministry of Commerce claims are producing results. BMW of West Germany has become the latest foreign motor manufacturer to sign a production collaboration with an Indian company. Its pariner is Bharat Gears of New Delhi, one

their collaborations go ahead.

of the Raunaq Singh family companies. They are waiting for the Government to announce a new motor production policy which will determine whether or not

attending the demonstration. South Korea's best-known dissidents, Mr Kim Dae Jung

and Mr Kim Young Sam; were beld under house arrest, while the NKDPa president, Mr Lee Min Woo, and a group of opposition MPs were not permitted to leave the party's headquarters.

The government had warned last week that it would not permit the demon-stration to take place. It said that radical and Communist elements would create violence, and it promised tough action. Nearly 2.000 people who tried to attend the rally were detained.

Western diplomats in Seoul said yesterday it was not the said yesterday it was not the government's action which was of greatest concern to them, but that its repercus-sions could lead to an even greater polarisation of poli-tical opinion than already exists in Sonth Korea. This in turn, they said, could lead to a growth in civil unrest. During the spring, the op-position successfully beld rallies in provincial capitals to win the right for South Koreans to sign a petition supporting constitutional change. It bad boped that the latest demonstration would be a turning point in this cam-paign.

paign.

Though we failed to hold "Thougb we railed to hold the raily, we will hold one in the near future," Mr Hong Sa Duk, tha NKDP's spokes-man said: "It would be ridi-culous if the government in-sists on claiming victory." But Mr Hong's words dis-guise divisions within the NKDP and the fact that the NKDP has been undermined

image has been undermined by a series of incidents during the autumn which the government has been able to use to discredit tt with Sonth Korea's growing and conser-vative middle class.

launches totalling 17.7m gross tons in 1984.

The number of ships sunk fell from 327, totalling 1.7m gross tons, to 307, totalling just under Im gross tons. The total ton-nage hroken up increased, however, from 17.7m gross tons to 22.2m gross tons.

Lloyd's Register said the biggest falls in gross tonnage by national fleet were Norway (6m tons), Liberia (5.5m tons), UK (2.8m tons), and Greece (2.6m tons).

Liberia retained its position as the world's largest fleet with 52.6m tons, followed by Panama with 41.3m tons. The UK re-mained in eighth position with 11.5m tons.

 Brokers reported an ex-tremely busy week in the tanker market, despite continued attacks on merchant shipping in the Gulf by Iran and Iraq, notably at Larak Island.

**Turkish** airline may be split

into 4 groups By David Barchard in Ankara

TURKEY'S national airline THY, may have to he split into four separate companies according to govarnment officials. THY was tha first public

corporction to be selected for privatisation by the Turkish government, nearly 18 months

ago. Under tha scheme, which is expected to go before the cahinet shortly, THY would be divided into: (1) a passenger carrier retaining the present name; (2) a cargo charter com-pany to be called Anatolian Airways, of which THY would he a part-owner: (3) a ground he a part-owner; (3) a ground equipment company; and (4) a catering company,

World Econo	mic Inc	licators
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,				Sou	reas Eurostat

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#### ISSUES OF GOVERNMENT STOCK

The Bank of England announces that Her Majesty's Treasury has created on 28th November 1886, and has issued to the Bank, additional amounts as indicated of each of the following Stocks:

£200 million 102 per cent TREASURY CONVERTIBLE STOCK, 1992 £100 million £100 million 9 per cent CONVERSION STOCK, 2000 81 per cent TREASURY LOAN, 2007

The price paid by the Bank on Issue was in each case the middle market price of the relevant Stock at 3.30 p.m. on 28th November 1985 as certified by the Government Broker.

In addition, Her Majesty's Treasury has created on 28th November 1986, and has issued to the National Debt Commissioners for public funds under their management, additional amounts as indicated of each of the following Stocks:

93 per cent EXCHEQUER STOCK, 1998 93 per cent TREASURY STOCK, 2002 £100 million £100 million

In each case, the amount issued on 28th November 1998 represents a further tranche of the relevant Stock, ranking in all respects pair passu with that Stock and subject to the terms and conditions applicable to that Stock and subject also in the provision corrained in the final paragraph of this notice; the current provisions for Capital Gains Tex are described below.

Application has been made to the Council of The Stock Exchange for each further tranche of stock to be admitted to the Official List.

Copies of the prospectuses for 103 per cent Treasury Convertible Stock, 1982 dated 10th August 1984, 8 per cent Treasury Convertible Stock, 1980 dated 8th March 1873 (which contained the terms of issue of 9 per cent Conversion Stock, 2000) and 82 per cent Treasury Loan, 2007 dated 11th July 1988 may be obtained at the Bank of England. Now Issues. Wailing Street, London, EC4M 9AA. The 9locks are repayable at par. and interest is peyable half-yearly, on the dates shown below:

Stock	<i>Redemption</i> date	interest payn dates
103 per cent Treesury Convertible Stock, 1992	7th May 1992	7th May 7th Novembe
9 per cant Conversion Stock, 2000	3rd March 2000	3rd March 3rd Septemb
8] per cent Treasury Loan, 2007	16th July 2007	16th January 16th July

The further tranches of 10<sup>‡</sup> per cent Trassury Convertible Stock, 1992 and 9 per cent Conversion Stock, 2000 will renk for s full six months' interest on the next interest payment date applicable to the relevant Stock. The further tranche of 8<sup>‡</sup> per cent Treasury Loan, 2007 will rank for the interest payment of £3.7198 per cent to be made on 16th January 1887, Official dealings in the Stocks on The Stock Exchange are expected to commence on Monday, 1st December 1988. on Monday, 1st December 1988.

10-j per cent Treesury Convertible Stock, 1992 and 9 per cent Conversion 9tock, 2000 are epecified, and 8-j per cent Treesury Loan, 2007 will be specified, under paragraph 1 of Schedule 2 to the Capital Gaws Tax Act 1879 as gatt-edged securities (inder currant legislation exempt from tex on capital gaus, irrespective of the period for which the Stock is held).

Government statement Attention is drawn to the statement issued by Her Mejesty's Treeeury on 29th May 1985 which explained that, in the interest of the orderly conduct of fiscal policy, neither Her Mejesty's Government nor the Bank of England or their respective servents or agents underske to disclose tax changes decided on but not yet announced, even where they may specifically affect the terms on which, or the conditions under which, these further tranches of stock are issued or sold by or on behalf of the Government or the Bank; that no responsibility can therefore be accepted for any unission to make auch disclosure; and that such omission shall naither render any unisson to make auch disclosure; and that such omission anan namer remain w liable to be set aside nor give rise to any claim for compensat

BANK OF ENGLAND LONDON

28th November 1988

### Oil price collapse 'cut energy bills by quarter' BY MAX WILKINSON, RESOURCES EDITOR

In the early part of the year, than in some other European coun-many companies with dual-fired in-tries. THE COLLAPSE of oil prices this many companies with dual-fired in-dustrial boilers switched from burnyear has cut British industry's energy bills by about a quarter, accord-ing to the latest official figures pubing gas to take advantage of the sharp drop in prices. lished at the weekend.

More recently, however, British Gas has been forced to lower its The saving, which could amount o almost £2bn in a full year, is likeprices in the industrial market to ly to show up in improved profits try to recapture those customers and will help to increase the Govwhich had defected to oil.

ernment's tax revenues next year, At the time of the Autumn Statewhen the exchequer will be sufferment earlier this month, Mr Nigel Lawson, the Chancellor of the Ex-chequer, said that the decision to ing the full effect of the recent re-laxation of public spending conadd £4.7bn to public spending would be offset partly by higher tax receipts from industry and from The latest edition of the Government's Energy Trends shows that the major saving for industry has been in the costs of heavy fuel oil which fell by 56 per cent in the sec-ond quarter of this year compared

The latest Energy Trends give an indication of the size of the benefit from lower fuel prices in industry alone. In the whole of the economy, atone. In the whole of the economy, the benafit will be much wider. The fall in energy prices in the UK this year has been less rapid Gas costs fell by only 2 per cent and coal by only 2 per cent, whereas electricity prices rose by 2 per cent

the UK.

### Exchange will try to ease strain of electronic trading system

#### BY ALAN CANE

in the period.

trols.

THE stock exchange has set up a exchange floor, where dealing was task force to ease the strain on its carried out face to face, much soonelectronic trading system which un- er than was expected, and many are derpins London's reformed securi. prepared to make large deals using ties markets.

with the same period in 1985.

The task force plans to "tune" the Topic viewdata service, which collapsed on the first day of Big Bang last month, and speed up the supply of computer terminals.

However, in spite of the probems, market-markers and brokerdealers appear to be quickly adapting to the new trading methods. Mr Hayter says that operating at Firms bave vacated the old stock such high levels of demand "is still

making us moomfortable," although tightening the system's de-sign and improving programming quality should cut peak-loading by

the electronic information. One of the first jobs of the task about 50 per cent before Christmas. The backlog of several hundred orders for terminals is expected to force, set up by Mr George Hayter. head of information systems at the take longer to sort out, and the exexchange, is to cut out bottlenecks change is unable to give delivery dates. Mr Hayter hopes the prob-lem will be resolved by March or in the overstretched Topic system, which reaches operating peaks each day of almost 90 per cent of its April next year, but this depends on

capacity. Mr Hoyter says that operating at and software by Modcomp, the US computer supplier.

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Chinese welcome building

TT IS pure chance that "Halifa" means "your prosperity" in one of China's many dialocts. However, nothing else was being left to chance at yesterday's opening of the first multilingual Chinese building society - a Halifax Building Society agency in London's Chinatown

don's Chinatown. The proceedings began with a ferocious golden-scaled dragen swallowing a cablage - a tradi-tional Chinese good luck ritual -and ended with everybody drink-ing "prosperity-punch." In the middle, the amenabled company had the good fortune to be treated to no less than two speeches from Mr John Heddle, the MP for mid-Scallorishire Energy Trends shows that in spite of the collapse in oil prices, Britain increased its own production of crude oil, by 5,1 per cent to

In the same quarter electricity sales rose 1.1 per cent. However, while coal and nil-fired stations produced 2.6 per cent more electricity, output from nuclear plants fell 2.1 speeches from Mr John Heddle, the MP for mid-Stallordshire and one of the vice-presidents of the Building Societies Associa-

In the first speech, in Mandar-in, he said: "Long live John Man (the manager of the new Halifax branch); long live the Halifax Building Society; long live Chi-

In the second speech, in Can-tonese, he said helping Chinese people huy a house in England was an ascellent way of improv-ing internetional relations.

Mr Hoddle also said it was important that other boilding socie-ties learn from the Halilax's example and open bilingual branches. It would then be easier for ethnic minorities to become

Apart from being bilingual, the new Halifax is distinguished from other building societies in two ways: it is open on Sundays and it shares its premises with a Chinese destist, a solicitor, an accountant and an insurance

BY MICHAEL PROWSE

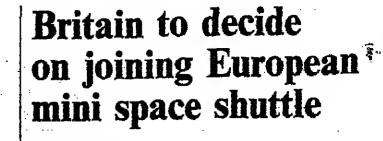
some combination of exchange con-

trols, import controls or tax-induced

repatriation of overseas financial assets later in this decade, says

Greenwell Montague the UK scuri-ties house, in a globmy assessment of balance of payments trends.

Such extreme measures, how-



Financial Times Monday December 1 1986

#### BY PETER MARSH

BRITAIN is expected to announce today whether it is to back the in-itial design phase of a joint European plan to build Hermes, a mini space shuttle proposed by France that promises to carry people and materials to and from orbit.

While France and West Germany have already declared their support for the scheme, organized by the 11-nation European Space Agency (ESA), Britain has left a decision to the last moment. The deadline for informing the agency about partici-pation in the design phase was last

nirat. The decision is politically sensi-tive because not joining in the design of Hermes - a £35m project which will take until next summer, after which the European countries will have to decide formally whether to go ahead and build the - would send a signal to vehicle

**Balance of payments warning** 

current account deficits and a This, they argue, will be difficult. strong underlying Gemand by UK. The abolition of exchange controls

The report's anthors, Mr Robert all outflow of capital as investors

Thomas and Mr Ray Richardson, in sought to diversify their portfolios common with many other forecast Instead there has been 8 strong and

ers, argue that the UK's current ac- continuing outflow of capital on

count is likely to move into deficit both the portfolio and direct invest-

BRITAIN might need to consider capital inflows to offset sizeable payments balance.

residents for foreign assets.

aver, would need to be contemplat-od only if a combination of higher interest rates and a lower exchange rate failed to generate sufficient

1

Britain's European partners that the country has doubts about the direction of European space policy. UK ministers were due to decide at the weekend on whether to back

Hermes. It had been expected that Britain would opt for a fairly small sharp of the design programme, putting up shout 6 per cent of the cash, compared with the 45 per cant proposed by France and 30 per cent red with the 45 per cent

which is West Germany's likely contribution. Although Hermes, a small reus-able vehicle that would enter orbit on top of an Ariane rocket, is still

is such that full-scale development is regarded as a certainty. stake in constructing the vehicle.

Officials in the British National Space Centre think that the Hermes project has merit, but they fear that it might put too much pressure on ESA's annual budget. which is running at about £800m a year and is due to rise to some C1.2bn by 1990,

Early plans for Hermes put its development custs at about £1.5bn. But UK officials lear the costs could double by the time development is finished in the mid-1990s.

Another reason for Britain's delay over the Hermes decision is that officials think funding of the vehi-cle could hold up plans to start, un-der the ESA suspices, a UK-in-spired project to build Hotol, a radically new space launcher. Unlike Hermes, which would re-

quire a conventional rocket to take it into space, Hotel, which is short for horizontal take off and landing. promises to leave the earth from 3 runway, so reducing the cost of go-

ing into space. Mr Geoffrey Pattie, the Minister of State for Industry and Informa-tion Technology, whose responsibilities include space technology, has argued that rather than develop Hermes, a better option for Europe might be to jump straight to the derelopment of Hotol. The latter, the design of which is still at an early stage, could be flying by early next century and cost £4bn to £5bn to de-

velop. The UK proposal that Hermes could be sidestepped in favour of only at the design phase, backing Hotol has been disdainfully re-for the project from other countries ceived in France. Mr Frederic d'Allest, director general of the French s regarded as a certainty. national space agency (CNES), Should Britain express doubts called the proposal "idealistic" and about the project now, the country said it would be dangerous to pro-would be unlikely to take much of a ceed with such a risky scheme without building Hermes first.

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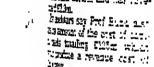
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**UK NEWS** 

Trichem the consultant which

monitors energy prices across Eu-rope, says that heavy fuel oil prices

fell by about the same amount in

Germany as in the UK in the sec-ond quarter of the year compared

with a year earlier, but gas prices for industrial consumers fell by 15

per cent, about twice as much as in

30.9m tonnes (225m barrels).

society

By Hugo Dixon

# Monday, luesday, Wednesday, Thursday. Info

### Psion Organiser II. The machine that thinks with you

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(Man Friday, eat your heart out.)

And they're only the start. Psion Its a diary that audibly reminds you Organiser II is in fact a massive memory computer which also has an extensive easy-to-use programming language built in. So you can tailor it to do the special things you want for business or domestic applications (we show you how). You can plug in extra memory packs two at a time - and change them (and the battery) without losing vital information. And you can link it to a printer and officebound systems.

In short, it's the most powerful business and personal aid you could ever slip into your pocket. Here now, It's a cross-referenced 'filing cabinet' thanks to British brains and technology.

> Sounds good news? Here's some more. Prices start from less than £100, including VAT. Get it from leading or computer stockists. For the name of your nearest stockists or a full colour brochure, contact Psion.

Psion Organiser II. Without it, you're on your own.

### export guarantee insurance

**Plans** for

#### By Poter Montagnon

THE Government's Export Credits Guarantee Department is consider-ing several new types of insurance schemes for exporters that will help schemes for exporters that will help it to compete with the alternative private sector insurance market. The schemes are still only at an outline consideration stage, but if adopted they could help stem the decline in ECGD's share of the Brit-ish export insurance market as well as incilitate exports to developing countries. ECGD confirmed at the weekend

that a number of schemes were under consideration by n new product development team set up earlier in the year. "We are now looking very seriously at the way in which we meet the needs of our customers," It

Bankers involved in export finance say that three main ideas are now being examined. They are:

• An Insurance scheme for bank letters of credit which would op-erate in cases where lending banks have already filled their internal lending limits for a particular coun-try or firm. This would allow loans in support of British exports to continue, although ways would have to be found for ECGD and the lending bank to share the risk.

• A scheme that would allow ECGD to continue cover for established importers in countries where it was withdrawing fresh cover. This "commitment cover" would mean that trade with long-standing customers of UK exporters would continue to be covered in such the cumstances although no new customers would be covered.

• A scheme thet would allow ax-porters to borrow funds to finance sales abroad without having to set aside reserves in their balance sheet against losses arising from default by the customer who bought

ECGD's finances have suffered in recent years under the impact of the developing country debt crisis. resulting in pressure from the Gov-erriment to make its operation more commercially-orientated. But as the traditional project lending markets in the developing world have dried up it has also suffered a fall in business which the new mea-sures would seek to correct.



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**UK NEWS** 

**DBS CONSORTIA** 

#### Channel 4 **Raymond Snoddy** reports on direct broadcasting by satellite considers **DBS** poised for lift-off going it alone

#### By Raymond Snoddy

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STIDES .....

Balling and

CHANNEL FOUR is expected to keep open the option of independence from Independent Television (ITV) when it decides its future structure next month.

Only two board members, Mr Edmund Deil, chairman, and Lord Blake, are unequivocally supportt ing a declaration now that the channel should eventually sell its own air time rather than receive a percentage of total ITV advertising revenue But support is growing to keep

open the independence option - recommended by the Peacock committee on the financing of British broadcasting - in case the broadcasting environment changes dramatically. The Independent Broadcasting

Authority (IBA) earlier this year asked Channel 4, its wholly owned subsidiary, to reject the Peacock option.

Instead the channel asked Professor Alan Budd of the London Business School to study the financial viability of independence. The board now faces two conflicting views of its future, one from Prof. Budd and a second, more pess tic, from Coopers and Lybrand, its anditors.

Prof Budd believes that national advertising revenue will show real growth of 5 per cent a year and that Channel 4 could increase its adverthere," he says. tising rates by selling its own air time.

By 1997, Prof Budd believes, Channel 4 could have an annual surplus of £32m on revenue of £286m. Coopers sees 3 per cent real growth in advertising and warns that the channel could have a deficit of £9m on revenue of £206m in the same year. The report is to be

published on Wednesday.

Prof Budd is critical of the selling methods of the TTV companies and

says that at present "these may

seem little point in rushing around

with a vigorous sales effort when

the extra revenue is so highly

At present Channel 4 gets 10.9, per cent of total net advertising

revenue. Prof Budd believes that it

could prosper as an independent or-

ganisation if it captured 14.5 per

cent of net advertising revenue.

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risks if the economic climate took a downium, It also says the Budd "study understates the likely size of the IBA transmittal rental and takes no account of who will pay for the Welsh fourth channel which at present costs £31.9m and has revenues of £2.3m.

taxed."

The auditors say Prof Budd also

DR JOHN FORREST, the recently appointed director of engineering at BSB: Amstrad Consumer Electronics, the Independent Broadcasting An-Angla Television, Granada Television, thority (IBA), has a clear vision of Pearson publisher of the Financial the importance of Britain's direct Times) and Virgin Group. broadcasting by satellite (DBS) pro-DBS UK: Carton Communications, Columbia Pictures International, Dixons,

Hambros Bank, London Weekend Tele-'It is one of the most exciting and vision, Robert Fleming and Saatchi and advanced projects in satellite Saatchi. broadcasting history," he says. DBI - British and Commonwealth Ship-

ping, Cambridge Electronic Industries, And after spending two full days last week helping to interview the Electronic Rentals, Ferranti, Reed In-ternational, Sears, News International, five consortia applying for the franand Mr John Jackson, the consortium chise to run three new channels of chairma national television, he believes NBS: Bell Group and Mr James Lee. there is the expertise and resources SatUK: Bond Corporation, Lonrho, Tril-lion, Celtic Films and Mr Jimmy Hartley, to make it work.

"The whole British electronics inmedia consultant. dustry has been waiting for a green light and a clear decision on the ameter on individual homes and to way ahead. On that basis the industhose allaready hooked up to modtry can respond," said Dr Forrest, ern cable television networks. Ironically the decision will come

former technical director of GECin the month when the BBC should Marcon The IBA has also been emphysis-ing the opportunity DBS offers to move to larger television screens more than four years ago. Instead, with higher definition pictures.

Think the whole situation is go-ing to get highly competitive with more and more channels to watch. and is now being sued for £57m by The public is looking for something GEC and British Aerospace for new from belevision and that new work allegedly carried out before aspect is large screens and stereo," the project was aborted. This time round, commercial or-

says Dr Forrest. From the beginning the DBS pic-ture is likely to be better quality International, Virgin, Robert than existing broadcasting. And Dr Holmes & Court's Bell Group and Forrest foresees the possibility of Merchant bankers Robert Fleming introducing progressively larger are all vying for the right to invest screens and sharper pictures in an in a project some believe could reevolutionary way every few years. quire as much as £700m for 15 "Potentially there is a tremenyears.

dous opportunity for UK industry The only thing that is certain is that when the winner of the fran-After more than five years of chise is announced this month that talking and disappointment the will only be the beginning of an exchise is announced this month that IBA is likely to give the green light to British DBS later this traordinarily complex project which comes with no guarantee of suc-

week by awarding the franchise for cess. At least three very different problems will have to be solved if DBS is going to be anything other than a licence to lose money on an the world's first wholly private sec-The French and West German DBS satellites, expected to be launched within a year, have redented scale, unpre • The DBS satellites will have to ceived large government subsidies and at present do not to use sophis-ticated technical standards which reliable service. The receiving equipment on the

ground will have to be available in proved wrom could lead to higher definition pictime and at a price the consumer In Britain, if all goes according to will be prepared to buy or rent. • The programmes will have to be

plan, sometime in 1990 a high-power satellite 36,000km above the equator will begin broadcasting three channels of television direct to dish aerials half a metre in di- one of the applicants pay a monthly years.

Sales warning after oil pipeline leak Coopers warns that independence would increase Channel 4's BY STEFAN WAGSTYL

says Dr Forrest.

tor DBS project.

times.

OCCIDENTAL PETROLEUM has oilfields in the North Sea. issued a warning that it might be Occidental said yesterday it was the oil market where the price of forced to suspend sales of oil from too early to say if shipments would Brent crude, the benchmark grade, its Flotta terminal near the Orkney be interrupted or for how long. Islands in northern Scotland follow- Tankers were currently being ing a leak in an undersea pipeline. loaded at Flotta from stocks. The leak, which caused a large of The company said it had declared The force majeure announcement slick which is now being dispersed

rose by about 20 cents to \$14.70 a barrel

"force majeure" on contracts as a was necessary for legal reasons, has been traced to a cracked weld ry measure while said the company. at the point where the Claymore

.....

subscription to supplement advertising funded programmes.

The present chaos in the international space launching business caused by the US Shuttle disaster and the faults in the European Ariane launch rocket may have eased by the time Britain's DBS satellites are ready to go.

This week the European Space Agency is expected to confirm findings that the problems of the Ariane rocket have been caused by a flaw in a single component and that flights will resume in the spring. The electronics industry is confident it can provide the receiving equipment on time.

We have absolutely no doubt about it. We have constantly criticised the broadcasters and the authorities for being so lethargic," says Mr Douglas Topping, technical director of Thorn EMI Ferguson

Mr Richard King, managing director of Cambridge Electronic Industries, a member of the DBL consortium also says he has no doubt that the technology is there. He be-lieves the receiving equipment will start at around £500 and that the usual rule of thumb of consumer electronics should apply - a 25 per cent price fall each time volu doul

All the applicants have come up with what they claim are unique and exciting programme schedules. In fact most plan permutations of entertainment, films and news and live events. The money available to spend on programmes will be substantially less than normal broadcast television. Independent Television's total revenue, for example, this year will be about £1.2bn. Yet some applicants are planning to spend less than £50m a year on programmes for three new channels.

Mr Patrick Whitten, managing director of CIT Research, leading new media consultants, worries about the franchise winner. Mr Whitten has a track record of taking a "realbe successfully launched and give a istic" view of the speed with which cable and satellite services will develop and so far he has not been

For the DBS project to be viable in the longer term, be believes it will need to attract 10 per cent of of high enough quality to persuade homes, 2m, within five years giving people not just to get the receiving a reasonable chance that this could equipment, but in the case of all but rise from 15 to 20 per cent within 10

the news brought some pnease to

The leak, which caused a large oil

### 中國安徽 The Booming Anhui Textile Exports

. . .

Annul Branch of China National Textiles I/E Corporation, as a state-operated enterprise with legal entity status. Is the sale specialized corporation to deal in the import and export of textiles in the province. We have seven business management divisions specialising in raw material, gauze, antificial libres, knits, cotton knits, garments and development and seven other divisions involved in various business services

Our main products fall in some 50 categories including cotion. cotton yarn, cotton piece-goods, printed shirting, ramie yarn, ramie piece-goods, cotton manufactured goods, synthetic fibres, cotton knitwear, wollen knitwear and garments.



Apart from the superb quality of our products and services, our iccess in establishing a worldwide reputation and maintaining a substantial annual sales increase are also attributable to various other unique factors:

- 1. Annui province, situated in the lower reaches of the Yangize River in southeast China, is endowed with fertile soil, mild climate and abundant rainfall, which provide the ideal conditions for agriculture.
- 2. Our textile industry has a complete range of spectrum, including cotion textile, hemp textile, wool textile, silk reeling. printing and dyeing, yam-dyed fabrics, knitting and chemical ibre. There are about 250 textile mills which have more than 800,000 spindles and nearly 30.000 looms in operation. About 100 mills are engaged in production for export.
- 3. The sea, land and air transportation network is well developed. conveniently crisscrossing the entire province.

Under the policy of "opening to the nutside world and invigoraling economy at home" the past five years have witnessed a significant expansion in the textile exports of our province. Our export voluma in 1984 quadrupled that of 1981; with 44.5% growth an the average annually.

At present, we have established business relations with more than 300 companies in the world. Business talks with traders from all over the world are most welcome. Co-operation can be in the forms of processing of supplied or importad materials, compensation trada, agency or joint venture.

China National Textiles I/E Corp., Anhui Branch Impart and Export Building, Jinzhal Raad, Hefei, China Tel: 60870 Cable: 0756 Hefei Telex: 90015 AHTC CN

### **Anhui Native Produce**

China National Native Produce and Animal By-products I/E Corp. was the first corporation ever to deal in the export of native produce and animal by-products in China. In 1984, Anhui Nauve Produce Branch was set up. Before 1977, we relied on I/E corporations such as in Shanghai

and Tianjin to export our native produce. Ever since 1985, we handle our own export business.

Strategically located on the lower reaches of the Yangtze and Huai River, Anhul Province is endowed with excellent transportation links, both land and sea, with the rest of the world. Land transportation routes stretch all the way to Hong Kong and Europe, while sea ransportation can be routed to different parts of the world through Wuhu, our own port, and various other adjoining coastal ports such as Shanghai, Nanjing, Nantong and Lianyungang.

Over the years, nur foreign trade has made great strides. Statistics for 1985 registered s staggering 6-fold increase of that of 1981, We have forged trade links with some 40 countries and areas.

Our products consist of more than 200 liems in 8 major categories which include jute and jute products, native produce, potted plants, timber and timber products, feedstuffs, preserved fruits, spices and oil, industrial raw materials. Peppermint Oil

With a long history of growing peppermint, Anhui Province ranks among China's major peppermint producers. Our refined menthol crystals and peppermint oil, which are refreshingly fragrant, stimulating and germicidal, are in great demand in world market. The products are widely used in tobacco, pharmaceutical, food and chemical industries. Spearmint

Anhui Province plays a major role in the production of spearming

in China, Light-yellow in colour and with a pleasing fragrance, it 



comes in an immense range of specifications to cater for the client's differing needs. Major buyers are from the U.S.A., the U.K., the Netherlands and Japan.

Citric Acid It is widely used by food and beverage manufacturets, in pharaccunical, chemical and other industries. Our citric acid is made from choice sweet potatoes by means of an advanced fermentatioo process. Noted for its consistent quality, it sells very well in Europe, Japan, the Middle East and Southeast Asia,

Kenaf Kenaf, the raw material for production of gunnysacks, is a major export commodity of China produced in our province.

Gunnysacks

Anhui-produced gunnysacks are of superb quality and available in full specifications, Shipment time is duly guaranteed. In terms of export valume, Anhul is China's second largest guanysack exporter. They are marketed to Western Europe, Africa, Southeast Asia and the Middle East.

Dehydrated vegetables

It contains the similar color, fragrance and taste with fresh vegetables. Major items include: garlic slices, red and yellow onion slices, ginger slices, carrot cubes, green string beans, whole and sliced,

Honey Anhul is noted for both the volume and variety of its fine honey. The varieties for export include milkvetch, acacia, and white honey. In recent years, new products have been developed and are added to the range. Arrangements can be made to manufacture to clicots' specifications, Feedstuffs

Major products include sweet poteto slices, rapeseed, cottonseed expeller, wheat bran, rice bran and green fodder, with major buyers in Europe and Southeast Asia,

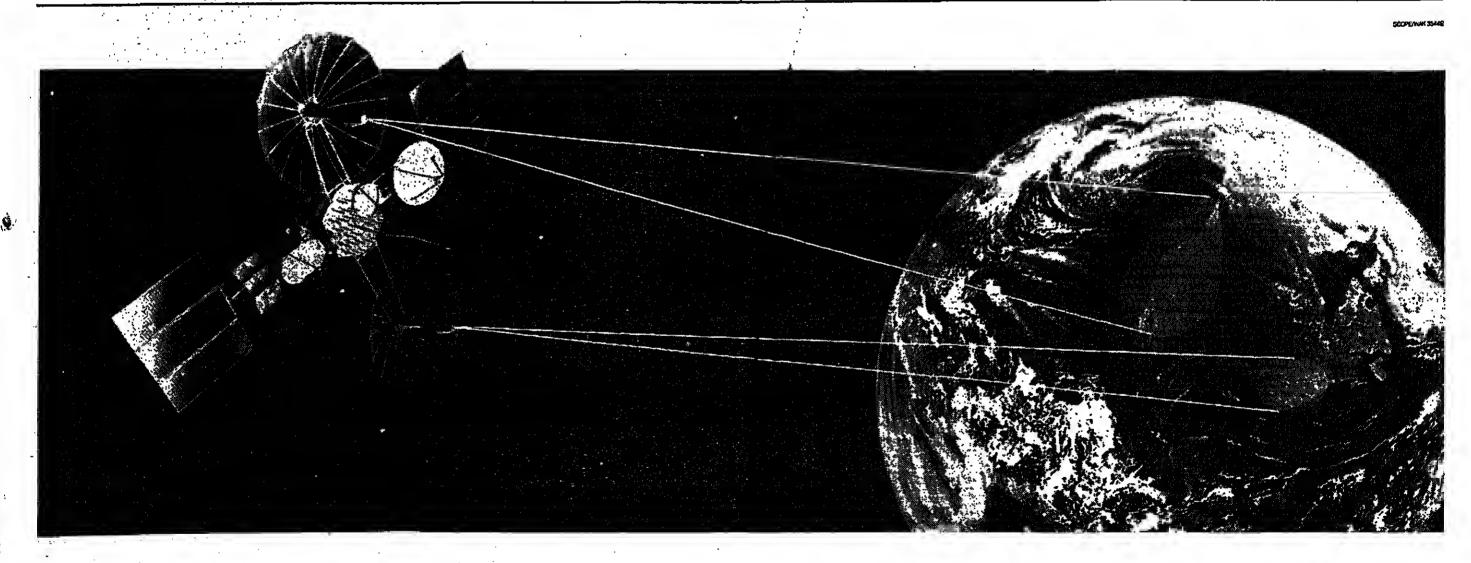
China National Native Produce and Animal By-products DE Corp., Anhmi Native Produce Branch Imp. & Exp. Building, Jinzhai Road, Hefel, China Tel: 61580 Cable: "ANHUTTC" Hefei Teles: 90013 AHTC CN





took no account of the cost of capi-tal needs totalling £125m which would produce a revenue cost of £6m a year.

engineers prepared to repair the leak which has led to the shutdown of the Piper, Claymore and Tartan one tenth of UK output. On Friday, pipes are 380 feet below the surface.



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8

# This Christmas have a heart for the elderly in need share in the cost of caring

### **UK NEWS**

### **Importer of Japanese** vehicles in receivership

BY DAVID THOMAS

The report will contain signifi-

those of a study completed in June by the Advisory Council for Applied

The Acard report listed numer-

unless it competed more vigorously in world markets, only companies supported by the Ministry of De-fence would survive within 10

However, statistical research car-

ried out for the new report, which has been written by Coopers & Ly-brand, suggests that the Acard study significantly overstated the weaknesses of British software.

The Coopers & Lybrand report is

likely to show that the main British

software companies have not been losing their share of world markets and that a high proportion of their revenues are derived from overseas

The final details of the report,

which is now likely to be published

in the new year, are still under dis-

cussion between the DTI and Coop-

ous apparent weaknesses in the US British industry and argued that, slow

cantly different conclusions to companies.

ly to say.

years.

cales.

software industry.

BY KENNETH GOODING, MOTOR INDUSTRY CORRESPONDENT

THE privately owned company which imports Isuzu vehicles from Japan has been placed in the hands of a receiver by its bankers, London and Continental. in February through about 20 deal-

The receiver, Mr Bill Ratford of accountants Peat, Marwick Mitch-ell, said the deficiency was likely "to run into many millions."

He suggested that Isuzu Cars (Great Britain) was a victim of the 25 per cent rise in the value of the tary restrictions which limit im-Japanese yen in the past year. The company bad also been too optimis-tic when setting sales targets. Mr Ratford hopes to sell the com-

pany as a going concern and will be advertising for potential buyers this

Isuzn GB was set up by directors of Follett, which has Porsche and Jaguar sports car dealerships in

**British Gas** 

plan cuts

cash calls

THE impending flotation of Brit-ish Gas appears to have discou-raged other companies from try-ing to raise cash on the stock

market, according to new issue statistics from Samuel Montagu, the merchant bank.

The figures show that new money raised through the issue of listed securities totalled E729m in November – a sharp fall from the £2.5hn of October and well below the £884m of November

iast year. The October figure was boost-ed by the TSB flotation, worth £L5bn, but November's figure al-so compares hadly with the £2.2hn raised in September. This suggests that companies are ner-vous in attempting to compete for cash at a time when investors are holding back their funds in readiness for Britain's biggest stock market flotation this week.

British companies raised £623m on the domestic market during the month. The biggest single sum was the £118m raised by Redland through a rights is-

last year.

By Richard Tomkins

London. It was kept separate from competing with much more modern Japanese sports cars such as the Honda Prelude EX (£12,500) and the Follett company. Isuzu GB is based at Ashford Kent, and employs about 40. It started selling Isuzu's Piazza Turbo the Toyota Celica (£13,000).

Next year Isuzu GB was to have started sales of the Isuzu Trooper, a four-wheel-drive vehicle which com-The company is believed to have peters we been allocated 1,809 Piazzas for Rover. 1986 under the terms of the volunpetes with the Rover Group's Land-

Isuzu GB indicated recently that it hoped for its import allocation ia 1987 to be lifted from 1,800 to 2,000 sports of Japanese cars to the UK. Sales are understood to have been well below that, in spite of heavy spending on advertising and setting up a dealer network. The Direct of its import anotation in 1987 to be lifted from 1,800 to 2,000 to be split equally between the Plaz-za and the Trooper. It came as something of a sur-prise to the UK industry that Isozo

slow down, implying that European

software companies are due for even fiercer competition from US

mented nature, a subject on which

Coopers & Lybrand has produced background reports. The British in-

dustry has been thought at a disadvantage because it has relatively

Government's commitment not to

industries.

prise to the UK industry that Isuzu GB was to import the Trooper, The Piazza was criticised for being a relatively old design. It was which is sold in continental mar-first sold in Japan in 1981 and is kets by General Motors, the US based on a study campleted by Ital Design in Italy as long ago as 1979. hall in Europe and 39 per cent of is-Priced at £12,850, the Piazza is uzu in Japan.

UK software holds.

its ground overseas

new homes By Joan Gray, struction Correspondent

TARMAC is siming to capture 10 per cent of the market for new homes in Britain and to be building 16,000 houses a year by 1990.

The company is already vying with George Wimpey to be Britain's biggest housebuilder, and its latest target is far in excess of that an-nounced by any other company.

**Tarmac's** 

target is

10% of

Tarmac expects to build and sell between 10,300 and 10,400 houses this year, following 9,163 comple-tions in 1985. It is gearing up to build at least 11,000 in 1987.

George Wimpsy - current leading housebuilder-built 9,743 houses last year and is likely to complete 10,750 this year.

Last year's number one - Barrait Developments, with a total of 10,300 completions in 1985 - has radically changed its strategy, and dropped out of the volume race. It has moved up-market instead and plans to complete only 8,500, but far more hyperious bornes next unutious, homes next year.

THE BRITISH computer software some support to the idea, long ar-industry has been holding its own gued by the British industry, that in world markets, an official report British companies are bandicapped commissioned by the Department compared with their international of Trade and Industry (DTI) is like competitors by the salture of the British cubic scatter to compared to the "It's not our corporate objective to be Britain's number one housebuilder because that would be out of character with Tarmac," said chief executive Mr Eric Pountain, "But we do want to build 10 per cent of British public sector to contract out the new houses in the UK and it much computer work to private that makes us number one so be it."

Tarmac is very much the dark horse of the housebuilding indus-try. Unlike Barratt and Wimpey, which have catchy nationwide ad-At the same time, it will note that central government has markedly increased its use of private compa-Research and Development increased its use of private compa-(Acard), a Cabinet Office body, nies for computer work in recent which caused a storm in the British years. vertising campaigns and national identities, Tarmac has kept a delib-The Coopers & Lybrand report will probably say that growth in the US software market is likely to erately low profile.

It consists of 20 separate small housing subsidiaries - the largest, McLean's, where Mr Pountain started, builds only 750 houses a year - all selling under different hames and with different indenti-This might be seen by some peo-ple as a particular problem for the UK industry because of its fragties.

"And we won't go national on it because it's a very local business," said Mr Pountain. "McLean's really means something in Wolverhamp-ton and the managers live in the community and advertise in the few large companies compared with those of the American and French community and build what is right for their community."

Housebuilding is already Tar-mac's second most profitable activi-However, the final version of the report is unlikely to contain any recommendations of the rationality. It earned £34.7m profit on £300m sation of the British industry or on turnover last year, compared to the mainstream quarrying business's £86m profit on £600m turnover. what to do if takeovers of British software companies are mounted from the US, because such recom-mendations would fall foul of the

With its houses now selling at an average £40,000 each, a turnover well in excess of £400m is predicted

#### Financial Times Monday December 1 1986

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Thirteen other companies made rights issues totalling E14im, but only three issues amounted to more than £20m: those from Regalian Properties (£37m), British Benzol (£29m) and John Waddington (£23m). it will intervene in industry.

ers & Lybrand.

# Foreigners confound expectations

#### BY PHILIP BASSET, LABOUR EDITOR

FOREIGN-OWNED companies in the UK feature some significantly different industrial relations pracas likely to have grown in employment tices to indigenous companies - but some practices confound traditional British expectations of how foreign They were more likely to employ personnel specialists to manage a given number of employees and in companies operate. That is a conclusion drawn from general they had less complex bar-

aining units with a higher proporfindings on the industrial relations tion having only a single bargaining unit to cover manual workers. Plant practices of foreign-owned companies in the new Workplace Industri-bargaining was very much more in-al Relations Survey, jointly funded portant than for indigenous compa-by the Department of Employment, nies, expecially for non-manual two other official agencies and a workers.

private sector research institution. Foreign-owned companies were Such companies, representing more likely than UK companies to about 7 per cent of total employ- have made initiatives on employee ment, were more likely to have involvement, and were "noticeably made severe workforce reductions more forthcoming," according to the in 1980-54 than indigenous compa-authors, with information about the nics, less likely to have kept their financial position of the establish-

employment constant, and equally ment - "a fairly widespread difference between foreign-owned and indigenous workplaces."

However, against widely-beld be-lief, the survey found that union recognition in such companies grew: 45 per cent recognised manual trade unions in 1980, and 54 per cent did so in 1984, principally be-cause a greater proportion had manual trade union members present as employees.

Similarly unusual was its find-ings on the closed shop. In 1960, for-eign-owned companies were margi-nally less likely than their UK counterparts to have a closed shop, in 1984 they were more likely to do so, with 23 per cent of foreign-owned companies featuring one,

for 1986; and in a year which has

Housebuilding is not just highly profitable. Its other attraction, ex-plains Mr Pountain, is that, unlike quarrying, "It's the only really big business in the group we can con-tinue to grow organically without huming armanica and nearbo buying companies and people."

Denying persistent rumours that he is on the acquisition trail, he emphasises that "we want to keep exponding from within and don't want to buy any more housebuilding

"We would like to see each of our 20 companies building 750 houses each, and all staffed independently so you svoid the problems of quality control of a very big company."

WORLD TRADE NEWS and the state of the GLOBAL COUNTRY DAILY IN THE FT

bing allowed was special concerning. Oneprisoners the comment proposition in the logeiner in eks war Sure and the curbing the periods. hopelessing Asone ("Instantion another beaute the particular still sea. become the most the them all THE SHEE The Name The foundaries

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#### MUCH SOUGHT AFTE GLENLIVET

For the Highlonder, distilling whisky was as natural as breathing air. Generotion ofter generation inherited a passion for turning the water of the

glens into the 'woter of life'. Whisky wasn't just his traditional national drink. It was his bread and butter. Distilling was virtually the only way he could turn his victuals into cash to pay rents, reward his workers and to feed and

shelter his family. But by the middle of the 18th century, the government mode this well nigh impossible.

Thirsting for revenue, it imposed prohibitive taxes on whisky making. While some Highlanders were

brought to their knees ond paid up, many others took their stills ond skills, ond fled to the remote mountain oreas to produce their beloved whisky illicitly. The Highlanders see red.

Almost immediotely, excisemen, or gaugers, were despatched North, to stamp out the proctice ond opprehend the offenders.

This angered the Highlanders. To them it was the government and its red-coated lockeys who were the criminals, taking the very bread from their mouths.

Robert Burns (who, ironically, became an exciseman loter) expressed the notion's sentiments in venomous verse: "Thae curst horse-leeches o' th' Excise, Wha make the whisky stells their prize! Haud up thy han, Deil! ance, twice. thrice! There, seize the blinkers! An' bake them up in brunstane pies for poor damn'd drinkers,"

Such was the Highlanders contempt for the law that it was not event considered andisgrace to go to prison for illicit distilling.

Indeed, in Dingwall Gaol convicted distillers were treated with privilege, being allowed out on Sundoys ond special occasions.

By the time John Smith's grandson George, inherited the still in 1817, the In 1747, whisky vas distilled wit fame of the illicit GLENLIVET had spreod for ond wide. "It is worth oll the wines of

France" opined the Doctor in Sir Walter Scott's St. Ronon's Well, "and more cordial besides."

Praise indeed for THE GLENLIVET's "cunning chemists," as Scott called George Smith and his workers.

Christopher North, who in 1827, wrote a famous series of sketches in Blackwood's Magazine, quoted Jomes Hogg, the Ettrick Shepherd:

"Gie me the real Glenlivet, and I weel believe I could mak' drinking toddy oot o'sea-water. The human mind never tires a'Glenlivet, any mair than o'caller oir. If a body could just find oot the exac' proportian ond quantity that ought to be drunk every day and keep to that, I verily trow that he might leeve for ever, withaut dying ot o', ond thot doctors and kirkyords would go oot o'fashion."

Going straight. Such a celebrated whisky couldn't remoin illegal for long. (Although outlawed, THE GLENLIVET was the toast of gentlemen,



lords and even kings. George IV of England was said to drink "nothing else.")

It wos the Duke of Richmond and Gordon (George Smith's londlord) who eventually put THE GLENLIVET on the stroit and narrow. He persuoded Parlioment to pass the Act of 1823 which mode legal distilling worthwhile. The following year George Smith took out the very first licence. Making THE GLENLIVET Scotlond's first malt whisky. People hod been enjoying it secretly for 77 yeors. Nowit existed. Officially. The rest is history. THE GLENLIVET'S unique subtle toste ond distinctive 'nose' has been opprecioted ever since. Try o dram ond experience its magical properties yourself. These days, you con't go to gool for whot you're drinking\_

Scotland's first malt whisky.

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One prisoner even approached the governor, with the remarkable proposition that they set up a still together in the gool.

Such widespread defiance mode curbing the outlow whisky makers o hopeless task.

As one illicit still was closed down, another begon. And in 1747, one porticular still began, which was to become the most famous distillery of them oll. THE GLENLIVET Distillery.

The Name Dropper. The founder of THE GLENLIVET Distillery was one John Gow, alias Smith.

. He was a veteron of Culloden, hoving fought and lost an the side of the ill-foted Bonnie Prince Chorlie, and was forced to flee his old haunts near Braemor for feor of his life.

He took his family North, hid in a remote valley and dropped his goelic name Gow in fovour of . Smith, to baffle the English soldiers.

(Which exploins why such a Sassenoch name oppears on our lobel.)

There he settled down for a quiet, ononymous life of farming and, of course, illicit distilling.

The Well of Fortune. As luck would have it, John Smith hod mode his new home in the precise spot where the woter ond the peot were the best in Scotlond for making malt whisky.

He had discovered Josie's Well. It is the pure Highland water that springs from Josie's Well thot makes THE GLENLIVET so special.

We can't explain it. It just does. And there is no other well thot performs the same magic. THE GLENLIVET made with any other water would not be THE GLENLIVET.

inine.

rnearest office

### MANAGEMENT

THE IVORY coloured carpet is The IVORY coloured carpet is spotless, the offices look like English drawing rooms, the ponelling shines. All is quiet but for a conversation beyond an open dogr. This scene is the executive suite of J. P. Morgan, parent of Morgan Gnoranty Trust. And as befits the image of America's

10

as befits the image of America's premier commercial hank, it is hushed, unhurried, and posi-tively reeks of quolity.

Morgan Guaranty is in a class by itself in the banking world. Though founded by one of Wall Street's more notorious wheeler dealers, the name has come to dealers, the name has come to he synonymus with all the nohlest qualities to which honkera aspire: soundness, discretion, intelligence, and a client list that is the corporate equivalent of the Social Register. Perhaps the most striking thing about Morgan is that its

Perhaps the most striking thing about Morgan is that its competitors, always quick to pick holes in each other, usually have little hut praise for its achievements. "Add it all up and it's avesome." says one of them, with generosity rarely heard on Wall Street. Many of Morgan's virtues are plain for all to see. Though not

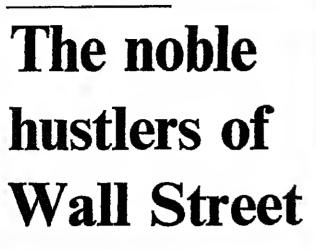
Many of Morgan's virtues are plain for all to see. Though not the largest US bank (it ranks number five), it is the only one which commands the prized triple A rating in the credit markets—such is the strength of its balance sheet and trad-ing record. With its high repu-tation, it can thrive by catering to only 600 of the world's top to only 600 of the world's top banking customers as close clients (though it deals with thousands more in the course of its everyday business) while its competitors cast their nets far and wide, and even have to stoop to provide banking services to millions of ordinary people.

But in mony respects, these are qualities which other harks could also achieve if they only aet out to emulate Morgan—as another large commercial bank, Bankers Trust, has in fact done. And while Morgan may put on classy airs, it knows how to use its elbows when fighting for deals. "They do it in o gentle-manly way, hut they bustle like everybody else," says a

competitor. The special Morgan qualities which others find harder to narture are far-sigbtedness, which has consistently put it at the forefront of trends, and a high level of cobesion within its ranks, the famous Morgan culture.

Morgan is, unusually, run by o "corporate office"-the four top officers who inhabit those comfortable drawing rooms and who consist of Lewis Preston, the bank's 60-year-old chairman, Robert Lindsay, the president, Dennis Weatherstone, chairman of the executive committee, and

Morgan Guaranty



#### BY DAVID LASCELLES

DESPITE its potrician image, Morgan is a hardy campaigner for reform of US hanking law, particularly the Glass-Steagall Act which bars banks from underwriting corporate securities.

In order to overcome the aectien which says that banks action which says that banks may not own companies "primarily engaged" in the proscribed securities husiness, Morgan has set ene np that would he only "partially" engaged in it. J. P. Morgan Securities Inc. has \$250m in capital and already includea

John Ruffle, the vice-chalrman. (The number will fall to three in January when Lindsay re-tires, to be succeeded by Weatherstone, a 55-year-old Englishman, who will thus move into succession for the chair-manship of the bank.)

The office, says Preston, " is a throwback to the old partner-ship which founded the bank." Throwback or not, it allows the key men to keep ahreast of everything thot is going on. Each man bas primary responsi-hility for some major activity

and octs as a hock-up for one of the activities covered by another. "We share our pers-pectives. We don't like to be surprised," says Preston, who used to he in the marines.

Largely because of the strong

the bank's money market operations and Treasury bond dealership. From January It will also have the municipal bond and public mortgage-backed securities operations. All these activities are per-mitted to banks under US

law. The next step is te obtain Federal Reserve Board per-mission to include private mortgage-backed securities, municipal revenue bonds and commercial paper, which fail into a grey regulatory area. Mergan filled its request in

bread and butter, and its needed, replacement by investment In Tra banking: providing sophisticated the line financiol advice and arranging complex securities-based fiinancial deals.

Earlier this year Morgon effectively transformed itself into a merchant hank by merg-ing its lending husiness with its calptal markets services to form o new Corporate Finance Group. Apart from highlighting the decline of what was once the hank's most basic business, the reorganisation was supposed to equip Morgan to handle the whole gamut of investment box).

account officer, Morgan now allocates teoms of individuals banking products. The trend towards accurities finonce was one it had been following carefully. In London,

to each of its hig clients. Each team contains whatever skills Morgan thinks that client will need: capital markets, plonning. it hos become one of the largest issue manogera in the Euro-markets, and o dealer in gilt-edged stock; a move into equities is now planned. In other countries it has gone into Largely because of the strong issue manogera in the Euro-consensus at the top, Morgan markets, and o dealer in gilt-has been oble to react faster edged stock; a move into and more radically than any equities is now planned. In Morgan is organised less along other US bank to the changes othet conntries it has gone into stud banking business-par-ticniotly the evoporation of the avogran's where they are no longer bocked up by heavy investment to react for big company and country loans, once Morgan's where they are no longer between backed up by heavy investment to react in the markets plonning, mergers and acquisitions, etc. Structurally, this means that mergers and acquisitions, etc. Structurally, this means that index mergers and acquisitions, etc. Structurally, this means that of markets and the companies of markets and the companies that operate in them is the mergers and acquisitions, etc. Structurally, this means that inter where knowledge of types of markets and the companies that operate in them is the country loans, once Morgan's where they are no longer bocked up by heavy investment

Everything under the wind.



August 1985 and is hoping for the go-ahead by the end of this year. If approved, these activities would constitute a minor part of the subsidiary'a operations, and fulfil the re-quirement that Morgan was only " partially " engaged in them. To insulate the bank from any losses it might sus-tain, the subsidiary carries no debt guarantee from its company, knowing that would be impossible as the law cor-rently stands. But it is hop-ing to be allowed to start a stockbrocking service through which it could execute orders which it could execute orders for equity stocks on the foor of the New York Stock Exchange, and advise inves-tors. Morgan is nhready a major factor in the equities market through its invest-ment division which manages some \$50hn of funds and con-ducts extensive stock research. The two scoredies debt guarantee from its parent. Morgan has deliberately held hack from asking for the right te deal in corporate securities through the new The key goestion, according to David Fisher, the president

of the subsidiary, is where the Fed will draw the line on "primarily engaged." "Some banks think it could be 49 per cent. We think it will be tower."

tower." Some people hove seen in the new company the seeds of a new Morgan Stanley, the investment banking arm of the J. P. Morgan hanking em-pire which had to be split off when the Glass-Steagall. Act came into force in the 1930s. But its prospects will be lim-ited until the Act is changed.

in new technology, including a co-operate less with their col-custom-built \$210m communica-tions, processing and accounting The stain on that culture is

box). To pull together; with only Instead of the traditional 14,000 of them it is tiny com-account officer, Morgan now pared with the likes of Chase The irony in Morgan's pre-eminent position is that it is also the most vulnerable. Its most obvious liability is its de-pendence on a narrow market. Although it has reached swifty to tha changing habits of its ptize customers, the new strategy was, in one sense, an act of desperation since Morgan and Citicorp with many times that number. But Morgan-watchers say the bank also bas the closest-knit corporate cul-ture of the lorge US banks.

Financial Times Monday December 1 1986

EDITED BY CHRISTOPHER LORENZ

Morgan does its best to protect its relationships by offering ad-visory services which are not dependent on transactions, or by erranging complex deals which require a lot of personal contact. But one senses it is more worried by this threot than it is prepared to admit.

The narrowness of Morgan's business also explains the sharpness of its attacks on US

bank regulation, specifically the Glass-Steagall Act which pre-vents it developing a fully-fledged corporate finance husi-ness in its home market. Preston admits: "At least for

Preston admits: "At least for the moment, we are a hybrid, and will remain so untit we get some legislotive relief." That relief may be a long time com-ing, especially after the recent Ivan Boesky insider trading scondal which has reinforced arguments that securities are the last thing a bank should be allowed to do. Preston bas threateoed in the past to give up Morgan'a banking dicence in order to escape banking regula-tion, but that way more for dramatic effect "That option Is not really ottractive because a significant part of our business still comes from hanking and deposits."

Morgan's lack of a hrood re-il customer base could he Morgan's lack of a hrood re-tall customer base could he another liobility in a volatile banking world. Continental liniois arguably went under be-cause it was overdependent on fickle wholesale money, while Bank of America may survive thanks to thousands of loyal personal account-holders. Morgan is careful to counter-balance this denger by running an extremely conserva-tive halance sheet and keeping its capital ratios among the highest in the land. Being top hank also means

S Brothers, rated Morgan as the top US bank this year based on profitability, credit quality, rapital, prodnctivity and Hquidity. "It's very impressive. But it's also sustainable." he says. "They have an ability to anticipate events greater than act of desperation since Morgan anticipate events greater than must hold its clientèle or die. anybody else, and then to struchlg bang.

Management abstracts international commerce with

International commerce with verbal savoir faire. W. K. Weber in Business Marketing (US), May 1986 (4 pages) An amusing piece on gaffes that can be made in translation or interpretation at inter-mational conferences or in let-tars Pienty of brief examples. national conferences of in lef-ters. Plenty of brief examples, presents advice on how to pre-pare for a multilanguage con-ference, and what to look for in recruiting translators ond inter-

for action, but contenus that team evaluation methods of performance appraisal can be more successful. Selling to high-tech top manage-ment. D. S. Matlow in Bust-ness Marketing (US), June 196 (4 narce)

'86 (4 pages) Examines the difficulties of closing sales to high-technology companies-for example, the time it takes, and the need to access customer top manage-ment; offers an approach to ment; oners an approach to achieving sales objectives in which the target customer is reached "from the boltom up in order to aeli from the top down." The aim is to make carly contact with the "economic-buyet" who can make the pur-

In the rankings. When you recognise you are in a vulnerable position you direct all your attention to get-ting from A to B." says Fred Vinton, vice-chairman of Morgan Gnaranty Ltd, its London-based capital markets arm. "There'a nothing magie about this busi-ness. We plug away at it." Morgan certainly seems to be getting to B. Thomas Hanley. the banking ane/yst at Salomon Brothers, rated Morgan as the top US bank this year based on profitability, credit guality,

anybody else, and then to struc-ture themselves in anticipation. Previous articles in this series were published on September 2, 17. December 6, November 3 and 17. December 2, October 6, November 3, and 17. December 2, October 6, November 6, November 6, November 6, November 6, November 7, N

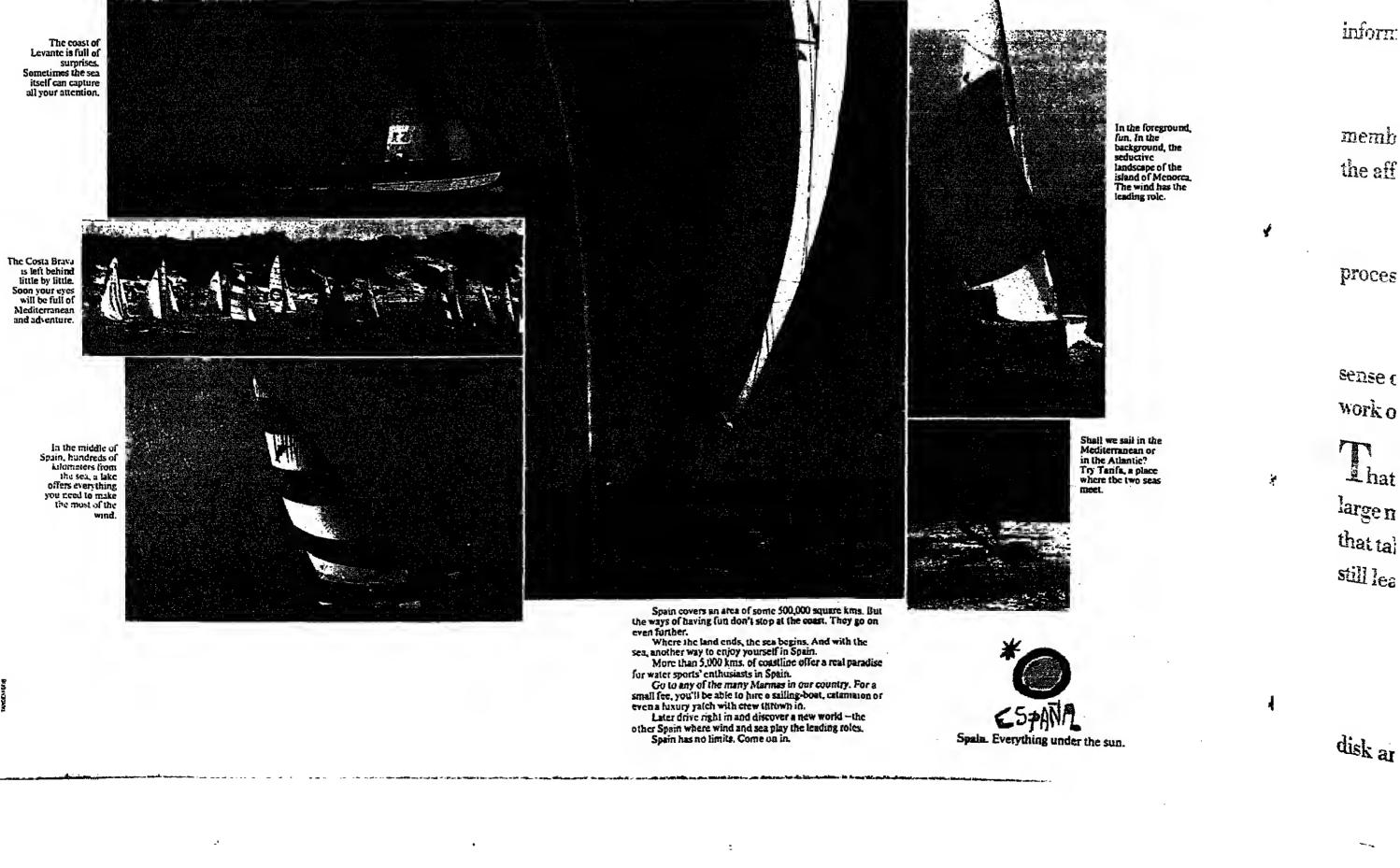
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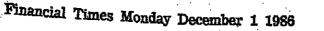
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As a high flying professional, you often demand a little extra.

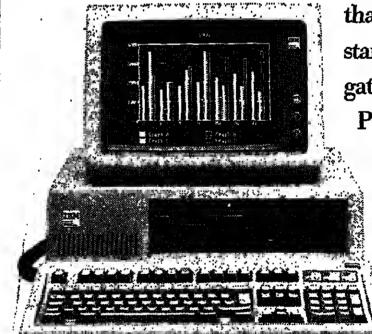
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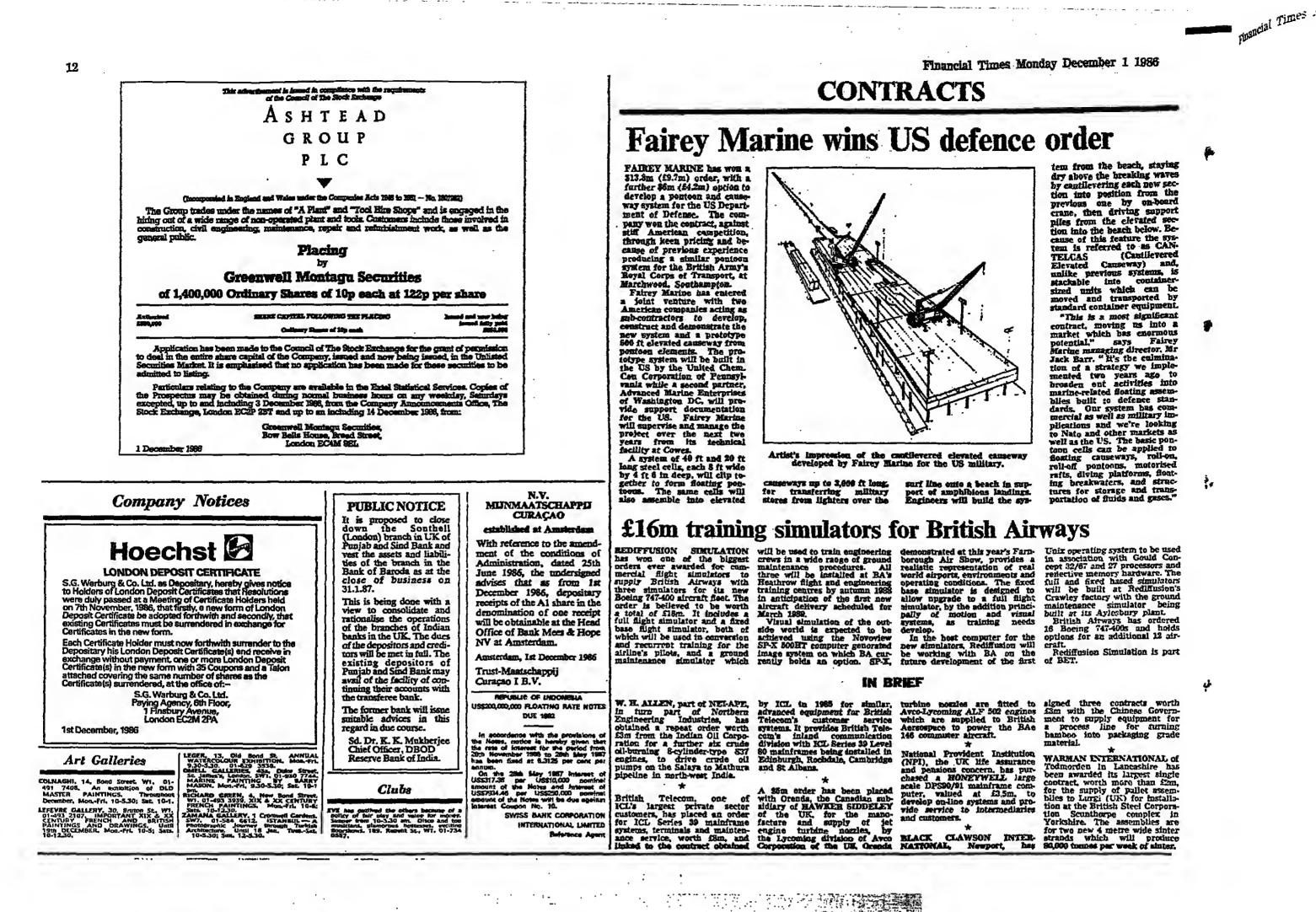
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The Chinese was refurbishing a furniture factory. Importing a

# Do you know the one about the Chinese, the Scot and the Belgie

large amount of foreign equipment to be paid for in hard currency. But the factory only produced for the domestic market.

Problem. He had no exports with which to recoup the outgoing currency.

He came to Generale Bank in Beijing. They contacted the Foreign Trade Promotion Department of their Head Office in Brussels, and asked about possible customers. Belgium occupies a prominent position in the furniture market. Not surprisingly the answer came back the same week.

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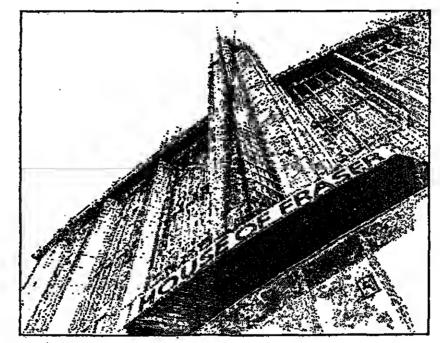
Office

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You are then invited to step across the threshold into the future. Into a department store like no other you've ever seen before. But which, in years to come you will increasingly see in the High Streets of Great Britain. You will know them by the name above the door, House of Fraser. And the fact, perhaps, that unlike the revolution in the City, ours will be something to shout about from the very first day.





### THE START OF A NEW ERA IN DEPARTMENT STORES

Goodbye to all

colleague of mine listened with

In "The Making of the Modern Family," Edward Shorter writing in the still-good-sex times of the 1970s says that "in the 1980s the chances were

"in the 1960s the chances were very high that young people who felt attached th each other would extend their relationship to the sexual domain. Even those who did not feel very attached would probably do so as well . . the chances were overwhelmingly that if things did not go well in either the quantitative or qualitative realm of sexuality in the 1960s, the couple would dissolve and the dance of courtship would re-commence with someone else. And that would bava been un-

And that would bave been un-thinkable in times past."

Will it become too scary to be thinkable in times future?

Perhaps. Shorter also believes that increased pre- and extra-

that increased pre- and extra-marital servality is a function of the loosening of community ties and intergenerational bonds consequent on rapid in-dustrialisation from the mid-18th century: and these bonds are looser now than aver. The automatic linkage of sexuality and good times, so distressing to those who could not get enough of the first to believe they were having the second.



The Award

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Refinancial Times Promited den to the Magget Reserv soland, and the assessors merspeliway instants in the tewhole composition citing

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1996 the assessore were a hers (until August) with Lot



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Sussey

### THE MONDAY PAGE

FORTUNE MAGAZINE recently called him America's most successful entrepreneur, but he much prefers to be labelled a professional manager. When he discusses corporate policy, he assiduously avoids the use the first person singular, although everyone says that he is in absolute control of the

is in absolute control of the company. He runs the fastest-growing large computer group in the world, yet he talks about his rivals without the slightest hint of aggression. These are just a few of the contradictions in Mr Ken Olsen, the quirky, 60-year-old elec-tronics engineer who in the last 29 years has built Digital Equipment Corporation from nothing to become IBM's most formidable competitor. He cleerly dominates the company, as big and as chunky aa the as blg and as chunky as the New England granite which surrounds DEC's headquarters. Yet he is a difficult man to measure, a mixture of personal charm and diffidence, open but obtuse, a visionary who likes working through committees, both autocrat and democrat et

the same time. Just one example of this oddly tangential, unexpected approach to business is bis atti-tude to IBM, the computing giant which casts a heavy shadow over every other com-pany in the business. "We are committed to giving memberan committed to giving people an alternative to IBM," he says. "It is really our social ohliga-tion to the world, and no one

else is going to do it." DEC's growth in the brief quarter-century since Olsen and five partners set up shop in the corner of an old Massachusetts textile mill is the cpi-tome of the American business dream. They atarted with virtu-elly nothing-just \$70,000, mostly borrowed from a Boston venture capital firm. In the venture capital nrm. In the early days, they scrimped and saved wherever they could. Olsen, it is said, vetoed the hanging of doors, even on the toilets, because they were too expensive, and he proved a dah hand at adapting common-or-garden products to exotic electronic purposes. The part-ners did everything themselves. ners did everything themselves from sweeping the floors to the demanding, cerebral effort of designing the world'a first com-mercial minicomputer. The mini-computer, a small,

rohust machine designed for scientists and engineers like themselves, was an immediata smash hit. It opened an entire new chapter in the history of the computer industry, hring-ing data processing power down from remote corporate eyries to the departmental level where the engineers could use it to help corporate data or below. help crack day-to-day problems. "We saw our mission as intro-

in the burgeoning US computer manage to squeeze out or their and electronics industries have backers. But in many ways, since mirrored DEC's success. Olsen is not a typical high-tech since mirrored DEC's success. Many of them have produced entrepreneurs who became American husiness heroes hut American husiness heroes hut none has yet achieved quite what Olsen has done as he quietly drove DEC into the number two position in the world computer league—a posl-tion it has only had to surrender where everything is deliberately where everything is deliberately



The man who made **IBM** pay to catch up

INTERVIEW

Terry Dodsworth talks to Ken Olsen, head of DEC. "We saw our mission as intro-ducing interactive computing, a strange new concept at that time," says Olsen. Scores of start-up companies In the hurseening IIS computer manage to squeeze out or their in the hurseening IIS computer manage to squeeze out or their public image. Commenting on which has, as a result, extracted public image. Commenting on which has, as a result, extracted Far from being ever, Olsen was

entrepreneur—and DEC, which more than most companies re-flects its founder's personality.

a period when the company came under withering attack four years ago, he says that "being beaten up hy the Press, sometimes quite unfairly, was a

sometimes quite unfairly, was a a product company," he says. hig advanuage, because it Oisen's love of the product, over many months as he stub-hrought everyone together." He honed by a long research spell insists that the criticism never at the Massachusetts Institute aused him to question his of Technology, began early, judgment. "I never felt that messing about with radios in we were wrong. But I never the cellar of the family home. felt that the world owed it to us to be successful either. The mentalist Christian household world doesn't work that was a product company. There were several by a pro-phecies of impending doom world doesn't work that way, and we made a number of misalso infected him with the other ahiding passsion of his life, a deep religious faith which is just as important to him as computers. More than most businessmen, he is willing to takes." Behind this detached, otherworldly attitude, however, there is a bubbling enthusiasm for len mill where it all started. The site, poised over a lake within a few miles of Thorean's Walden Pond, seems to have been chosen mora for its talk about ethics, and he regu-larly attends e prayer meeting of top Boston businessmen. computers and what can be achieved hy finding more and more uses fur them. The atmo-sphere in the DEC beadquarters Olsen's Christianlty has un-questionably been a significant today is enormously infectious, as it rides the weve of success element in the development of DEC. For ethical reasons he is had managed to retain the sort While he does not avoid pub- for its new range of mini-of equity participation which licity, Olsen does not go out of computers. But DEC has always strongly opposed to marketing, which ha habitually describes which ha habitually describes es "selling customers something they don't want." He is also deeply suspicious of advertising, on the grounds that it often distorts the truth: and he refuses to pay bis salesmen com-missions. "The message you

equally ferocious loyalty from Its customers. To this day Olsen will go off and tinker with the machines, "We believe we ara

a product company," he says.

missions. "The message you are giving salesmen on commis-sion is to work bard for the order, hut not so hard for the

people who gava you tha order," be says.

be says. This mixture of personal modesty and rock-hard convic-tion has frequently puzzled and disconcerted observers. and it has elearly contributed to the

group's unconventional man-agement styla. Until very re-cently, DEC has been run in a collegiate spirit. In the aariy

days, scientists would come to-gether in projects when they

warranted it: later on, the com-pany was split into separate

fieldoms ceotred on specific product lines, but answerable to a central committee. Oisen's

authority is exercised through this committee, where he prods

while he may not impose his attitudes, ha concedes that four years ago he had to act to re-solve a crisis and give the com-

pany new direction. It was in this period that DEC reached

its lowest ebb. Wall Street and the rest of the investment com-munity seemed to be mer-merised by IBM's new personal computer range, which was

then effortlessly sweeping the opposition aside. DEC's own personal computer flopped dramatically, generating a flood of obituary notices in the busi-

PERSONAL FILE

electronics engineer. 1950-1957: Research worker in MIT computer laboratory, 1956: Secondment from MIT to 18M. 1957: Founded DEC with five partners, 1950: Young electronics engineer of the year. 1970: US businessman of the year.

1926: Som in Stratford, Connecticut.

Far from being inactive, how-ever, Olsen was at that time struggling to introduce a more centralised, conventional management system. It was a wrenching episode, dragged out

Characteristically, he describes

his part in this reorganisation

hurt to see his friends go." they were enireprencurs, good at ad hoc. spur-of-the-moment decl-sions. They could not swallow

disease-the inability to see the

that Good Sex JOHN LLOYD

mlaery.

subterranean world of youthful

Yet resentful members of the "caring" professions have been growling that this blitz is merely

snother neon-lit one-night stand for the rootless media circus leaving a trail of impossibly aroused expectations behind it:

while parents have volced fears of their children reaching for

the Childwatch number after a domestic altercation or from a

rage of repressed jealousy of a supplanting hut innocent step-fathar.

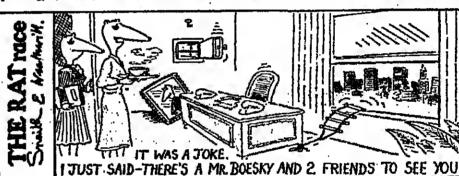
fathar. For all that, thoogh, the viola-tion of children and of women la now exposed to debate and posed as s problem with which society and its managers ere enjoined to dcal. The freedom of sexuality, seen 20 years ago to be en undifferentiated ad-vance towards the light is now represented as dark, terror-laden and even possibly fatal. The signs of the times are all

The signs of the times are all

TODAY, DECEMBER 1, sees the opening of the retrospective season, the ennual, that-was-the-year-that-was, period in journalism. Here is an early cntry. Nineteen-eighty-six has heen the Year of Bad Sex. It has opened up the qoestion, now being thrasbed through at bar counters and dinner tahles, of whether or not this is the he-ginning of tha era of bad sex. Aids is at the root of 11, of course. But from a varlety of other aources, as well, have come fresh aoxietles and move-ments which could bring the Era of Good Sex, generally thought to have begun in the 1960s, to a close. 1960s, to a close.

The Good Sex Era, which de-pended isrgely on widely avail-able and (for men) safe and trouhle-free contraception, saw a general acceptance of the view that sexuality was henign, end the more the hetter. Of course, there were all sorts of people and institutions protesting that life could never be that simple: hut they wera on a slippery slope

Some of these anxieties and some of these anxieties and movements are serious, though not as serious as an uncheckable AIDS apidemic. Women have become increasingly concerned over cervical cancer, and the possibility of infection from man\_e throng argument against men-a strong argument against promiscuity, or at least for tha use of condoms, Feminists have taken a lead in this, as they have In insisting on the serious-ness and high incidence of rape and other sexual abuse. More



JUSTINIAN

delay and inconvenience vie with eoch other to attract or

The signs of the times are all around. A spate of books — Germaine Greer's "Sex and Gender," Celia Heddon's "The Limits of Sex" and the most recent Liz Hodgkinson's "Sex is not compulsory," sll counsel abstinence as preferable to had sex or even any sex. Mrs Mary Whitehouse won hy s 2-1 mar-

gin when supporting, In a Cam-hridge Union debate last month. the case that pornography should be banned. and more, it seems, the women have come to see the sexuality revolution es one which bene-fited men only.

AIDS has given all of this a huge boost. The frightening growth in the prevalence of the disease, the dawning realisation within the heterosexual nave come to see the scalarty revolution es one which bene-fited men only. Others are a hopeless mixture of seriousness and hype. Ms Esther Rantzen of the BBC has put the problem of child abuse --very often sexual abuse hy a parent, more usually step-parent or relative---at the fore-front of the public mind through "Childwatch." Her programme, which called for responses from the afflicted, attractad enormous numbers of calls---some 50,000 immediately after its broadcast --pointing, it seems, to a huge

14

this year following the merger understated. The company has of Burroughs and Sperry. Today, a much lower profile than with revenues of \$7.6hn, DEC smaller hnt more glamorously is the undisputed star of the presented groups such as Wang middle sector of the computer or Apple. Olsen shuns osten-markef, where it has out-tation, driving around in a Ford manocuvred IBM with a series of innovative products, and still working from a corner office of the old wool-

nf innovative products, Long ago, unis extraordinery record of growth turned Olsen into a multi-millionalre-with 2 per cent of the company, bia stock is worth well over \$200m been chosen mora for its today. Indeed, he would have natural beauty than its accessi-been a multi-billionaire if he hility. had managed to retain the sort While he does not avoid pub-

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December, 1986

First and last instance HE Master of the Rolls, Sir

nis part in this reorganisation in muted terms. The policies had heen agreed, he says, but DEC, heing a "free-wheeling, undisciplined organisation," was not following them. "So it was clearly my responsibility to do exactly what I did." While it hurt to see his friends go "they John Donaldson, is not the only senior indge who is tackling the prolixities of legal proceedings in appellate courts. The House of Lords has now weighed in to dissuade dis-putants, who choose to litigate at length-very oftan all the way up to the House of Lords-simply about where they should conduct their litigation,

the discipline of heving to work together." In Spiliada Maritime Corpora-ion v Cansuler Lid the Law together." DEC's fabulous growth spurt against the tide in the Industry has since totally vindicated the reorganisation. What the com-pany has done with its new range of machines is to make it possible to link various types and sizes of products in a net-work which spreade computer tion Lords have put down a marke to indicate the unwillingness of appellate courts to allow parties to indulge their litigious appe-tites. The recipe for the future is that the court of first instance is pre-eminently the place to test the merits of triol in England, as against litigation abroad. And that should be the end of the road, both in the interests of the parties and the need to curtail the example. work which spreads computer power throughout an organisation. Its computers span the power range from small dcsktop personal computers to the bottom end of the large main-frames. Yet because they are all designed to talk to each need lo curtall the expansive procedures which we can no longer afford.

other without expensive adapta-tions, they can simply he plugged together in the way that telephones can be hooked into the public network. Where the initiator of legal proceedings is entitled to begin his action in England, the courts hero will stop him in his tracks only if his opponent can satisfy the court that some other available forum for re-"The most important thing in business la to bave an organisation that works logather, end the key question in computing is to be able to tie up machines easily with each other," says Olsen. solving the dispute is the more appropriate. Where, however, the initiator can bring his action only by leave of the court, it is he who must satisfy other," says Olsen. This is a viaw which is in-creasingly attracting converts, even at IBM, which is now rush-ing to cetch up with more com-patible machines. The fascina-tion with personal computers as an end in themselves is dying away, and Olsen is clearly con-vinced that DEC's "simple, ele-gant solution for tying a system together" has created a much better base for substantial growth. court, it is he who must satisfy the court that England is the more appropriate place to have bis action tried. Whatever rea-sons may be advanced in favour of a foreign court trylog tha case, tha plaintiff abould be allowed to pursue at home an action over which the English court has jurisdiction if it would be unjust to confine him to the more limited remedics elsewhere. growth. But he refuses to be drawn elsewhere. The instant case involved a

The instant case involved a bulk carrier, managed parily in Greece and parily in England. The vessel fiew the Liberian fisg and was owned by a Liberian corporation which claimed that the cargo of sul-nhur, loaded by a Shipper in Vancouver and carried from British Columbia to ports in India, had been damaged. Both sets of insurers which the courts on how effectively DEC can chalience IBM, a company which is seven times its size. That he leaves to Wall Street of obituary notices in the busi-which in a typically sharp swing ness press as profits plunged in m sentiment has pushed IBM 1983. Olsen was written of as into the dunce's corner occu-an old man with founders' pied by DEC four years ago. The factors which the courts have taken into consideration Service in US Navy. Entered Massachusetti institute of Technology. Graduated as whether one forum is to be preferred to another are legion.

And the case-law on the sub-ject is anything hut helpful, In the present case, the shippers preferred the Canadian courts because the limitation period in Brilish Columbia was

of the conntry's litigating citizenry. But no justice is done if a party is, in effect, compelled to accept one of the well-recognised systems applicable in the overseas courts. This contrasts sharply with

the approach currently adopted by the United States courts. Judge Keenan in the Districi Court of the Southern District of New York, in May of this year, ordered a stay of pro-ceedings, commenced on behalf of Indian victims of the Boopsi disaster againsi the Union Carthought differently. Other cases throw up conflicting evidence, sbout which optimistic and gloomy assessments of capense,

favourable to their cause. The shipowners and their insurers that Union Carbide would sub-thought differently. Other cases mit itself before the Indian courts to discovery under the model of the US Fedaral Rules of Civil Procedure after appro-priate demands by the Indian plaintiffs

Architect Microssi Auriett Engineer: Antrony Punt A

four major factors: damages ere awarded un a higher scale in England than in most other Lord Goff of Chicvelcy has siven the coup de grace to future texal arguments over

countries: spart from the United States, there is a mora ample procedure for the diswhere litigation should take place. Lord Templeman was altogether more drastic in pre-scribing the remedy for long-winded proceedings to decide closure of documents in the dis-English system; a power exists in England to award interes; nn the damages awarded; and the venue of litigation. He re-commended that trial judges should fully digest Lord Goff's speech in Spiliada in the gnict there is a more generous law of limitations with regard to the period in which an action must be brought. Deprivation nf some of these ad integes will speech in Spittona in the quict of their rooms, and thus with-out expense to the parties in having it read in cricuso in the courtroom. He went in to recommend that the judge should ignore the accumulated not deter the English court from telling the plaintiff to try his

telling the plaintiff to try his recommend that the judge luck elsewhere, so long as the should ignore the accumulated body of case-law and listen to oral submissions "measured in hours, not days." An appeal from the judge's decision would become a rarity, spectrum of systems of dis-of unisdictions, ranging from limited disclosure available in Every day now indexes in limited disclosure available in Every day now, judges in England are exhibiting their Western European countries, to the ample — some would say excessively generous — proce-dure for discovery in the US. awareness of the virtues of restricted oral advocacy and of slimming down the process of litigation. The European legal The English system lies somewhere in the middle of the continuum of discovery systems, systems, with their heavy reliance on written briefs from the All sysiems have their viriues and ibeir vices, and no doubt partics, and limited emonnt nf lime for oral bearings, are becoming infectious. sult the different cultural habits

Client: Sun Lulande Insurg Contractor: ICC Limited J Sainsbury pic. Supermi Arther: Ahrenes Burten Engneer, Ernest Green & Clent: J Sanzoury cv.

Contractor Contractor and Link Centre, Whitehill Wa Architect: (Terrectorion 5 Aristens Department Angener: Anthony Hunt A Clent: Themescown Porc unitation Boxes Constant

emastie Travel Centre, The Tyne and Wear Archiect: Resonal Archies Pastren Siter 93173 6997697 - 72030722 (C.r.) 57 Million Rol 1223,072 (C.r.) 57 No. 1997 (C.r.) 500-27 Chent: British Retiviciys Bc. Mustor Chapterd Con

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distract the court in looking for indicators of one solution rather than another. This approach, of trying in set the hest of both worlds. has never found attraction with

The key to the solution lies English judges. Five years ago in the underlying principle. the Law Lords thought it right The judges have to consider that there should be e stay of where the case may be rried proceedings in England, where "suitably for the interests of the appropriate forum was all the parties and for the ends Switzerland, even though the of justice." The application of plaintiffa were thereby denied that principle in velation to the advantage of the more ex-advantages which the plaintiff pansive English procedure of may derive from invoking the discovery of documents in a English jorisdiction focuses nn fraud case.

# **Financial Times ARCHITECTURE AT WORK** 1986 Award for Industrial and Commercial Buildings

### The Award

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The Financial Times Architecture at Work Award for 1986 has been given to the Megget Reservoir and Control Building, near Selkirk in Scotland, and the assessors wish to include in the prize the white tower spillway that sits in the lake, the stilling pool, the dam itself and the whole composition of the giant landscape of the scheme.

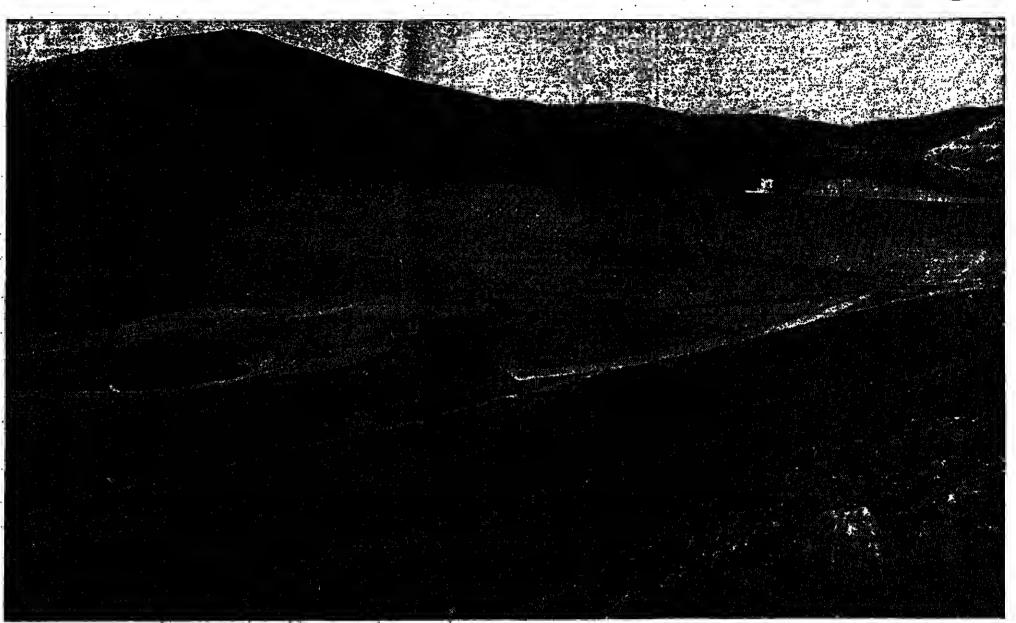
The stone and steel entrance gates, the portal in the hillside that leads to the waterpipes to Edinburgh and the entrance to the Control Building are all consistently carried out in a well-composed development and enlargement of the local drystone wall vemacular. The Control Building is below the surface of the dam which allows the dam to be the major element in the landscape and permits wildlife and plant life the same . opportunity to colonise the valley as it had before.

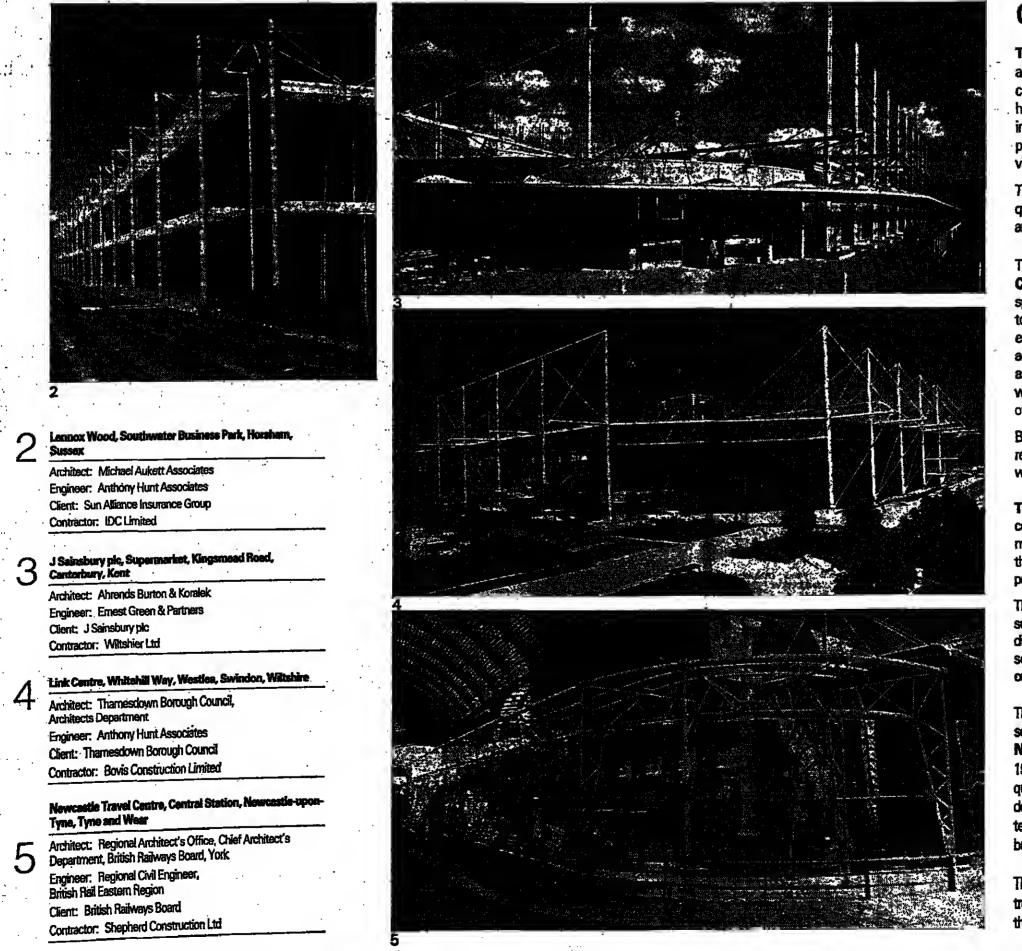
The Control Room is itself very well designed and is connected to the elegant white tower by a blue tunnel and in the other direction down to the very effective (literally and in landscape terms) stilling pool, whence the burn proceeds down the valley.

All the elements combine together to contribute and respond to the large scale of the lake and the beautiful surrounding landscape; good in the detail of their design, and good as the parts of a bold whole. The assessors are happy to give the Award to this scheme.

In 1986 the assessors were architects Edward Cullinan and Richard Rogers (until August) with Lord Gibson as the layman.

- legget Reservoir and Control Building, Capperclauck
- Architect: WJ Caims & Partners Engineer: R H Cuthbertson & Partners Client: Lothian Regional Council
- Contractor: Whatlings (CMI Engineering) Ltd





### **Commendations**

The Link Sports and Social Centre in Swindon is commended for its asymmetrical composition of many varied elements under the great canopy of a suspended, rectangular and mono-planar roof. The skill and high speed with which the building was designed and built is reflected in the infectious enthusiasm of its occupants, which extended as far as



push-starting the jury's car swiftly and effectively at the end of their visit.

The reason that it was not given the prize is partly a result of this very quick pace of design, construction and occupation, resulting in a certain amount of rather inconsistent detailing and some clumsy junctions.

The assessors also commend the Sainsbury's supermarket at Centerbury for its powerful external roof structure of silver masts. spars and ties, both well designed in its own right and as a complement to the Cathedral. This lovely roof structure also serves to make an excellent elevation along the main front and is completed by the addition of a very elegant tensioned pedestrian canopy. However, the assessors were a little disappointed by the other sides of the building which actually form fronts to other roads in the town, and the interiors of the service areas were poorly detailed and finished.

But the commendation stands firmly on the notable achievement of responding inventively and elegantly to a numinous environment without the pastiche so often favoured by supermarkets.

The Sun Alliance building at Lennox Wood, near Horsham, is commended for its calm, almost Palladian quality in the landscape of a major new public park, including its delightful use of the old device of the 'ha-ha.' The building also has smart and comfortable interiors and provides an excellent working environment.

The realisation of the simple cross structure of the building is more suited to its glass elevations than to its opaque ones and it has some difficulty going round the corners of the L shaped plan: but the building serves as a fine example for future Company Headquarters in country or suburban settings.

The assessors also wish to commend one further building, which in some senses is not a building at all, but a clever insertion. The Newcastle Travel Centre is placed plumb in the middle of the restored 19th Century railway station. It has neither the somewhat temporary quality of so many of the post-war insertions into our great stations, nor does it seek to repeat or copy the station itself; rather it is its own bold, tensile and joyful self, in scale with and a complement to the fine building in which it sits.

The Financial Times wishes to thank all the entrants for the time and trouble they took and to encourage them and the sponsors to keep up their high standards.

For a free copy of the illustrated Award brochure send a stamp addressed A4 envelope to: FT Architecture Award Brochure, Financial Times, Bracken House, 10 Cannon Street, London EC4P 4BY.



FT Architecture at Work Award/Colin Amery

#### Dagmar Krause/Elizabeth Hall

#### **Andrew Clements**

It bas not been s good year gramme gives as much weight for Brecht on the musical stage to Eislar as Weill: rightly so, —Scottish Opera's Mahagonay for the much more extensive and the National Theatre's collaboration of Brecht with Threepenny Opera do not leave Eisler is only beginning to be many cherishable memories. But in the concert ball things bave parabla importance to the beeo much brighter, and Dag-earlier and much more fétted partnership. The tunes may not songs by Weill and Eisler at the Elizabeth Hall on Friday, until tha title "Supply and Demand," was the brightest of all. subtle.

16

Demand," was the brightest of all. Krause's background has a polygiot component that sults this repertory perfectly: beginnings in Hamburg night sound that bas become synony-clubs, a gradual drift into progressive rock and experi-mental musle with the likes of mental musle with the likes of mental musle with the likes of the ry Cow, Robert Wyett and Michael Nyman, and in recent years the evolution of the Brecht evening she presented ber of rock musicians have ettempted to colonise Weill, Krause's directness is immensely effective. She's faithful to the notes, sings almost all the correct pitches, yet still maneges to inject more fire and fervour into the lines than any of those wbo treat the musical texis with reckless abandon. If Milva's show at the Al-meida earlier in the year represented the chic stylisation of Brecht, Krause is ber pre-cise antithesis: waif-like in her stage Image, with yerky, nervous gestures that manage to com-bine tonghness with vulner-ability. Her bour-long pro-

have left disappointed. Taking the opening two-octave leap with the left hand alone, as it is scored, is always a good sign—it establishes the element of risk that the performer is prepared to take from the start. And from that gesture, too, uncurling like a spring, Lill established a relentless forward momentum, surging without hesitation to the movement's

hesitation to the movement's final page. It was a most im-pressive beginning, articulated with the greatest clarity, which

broke like an immense wave, and then withdrew, leaving the

scherzo to emerge fresh and crystalline, delicately super-

cbarged. Lill's account of the Largo

John Lill/Barbican Hall

**Dominic Gill** 

1986 winner achieved the right balance This is the fifth year of the Financial Times Architecture at Work Award. It has been another good ooe, although it is probably true to say that the

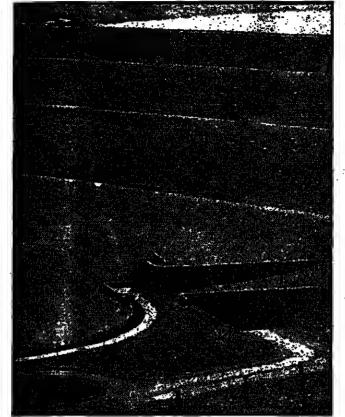
crop of buildings represents a generally higher than everage dedication to the raising of design standards in the work-place. Our jury. Richard Rogers (until August), Edward Cullinan and Lord Gibson, atates clearly in its report that "they clearly in its report that "they were encouraged by the care and quality that many com-panies are now seeking in their company headquarters." But this year the choice has not been easy as no one scheme stood heed and shoulders above the others. For 1986 the jury bas decided to commend four schemes and to give the Award to one unusual project that "is to one unusual project that " is particularly inventive and re-sponsive to its environment."

sponsive to its environment." This year's winner is the Megget Reservoir and Control Building, near Selkirk in Scot-land. It is much more than simply an architectural solution and the architects, W. J. Cairns and Partners, worked in com-plete partnersblp with the engineers, R. H. Cuthbertson and Partners, for their clients, the Lothian Regional Council. The watery lowland valleys

The watery lowland valleys of the Lothians demand sensitive landscape treatment. In this scheme the dam is the major element in the landscape and many of the necessary control functions are carried out in plant rooms that are below the surface of the water. The entrance to the site, the portal in the hillside and the entrance to the control building are all carried ont in the local

drystone vernacular. By any standards the construction of the reservoir was a major project, costing some £48m. Work started 10 years ago to build the highest im-

John Lill's cootinuing lunch-time survey of the complete Beethoven piano sonatas (there on December 5, 9 and 12) arrived at the Hammerklavier on Friday. A large and enthu-siastic audience arrived too for the eveot; and they will not have left disappointed. Taking the opening two-octave isgn—it establishes the element adaptor to the survey of the element adaptor to the survey of the survey of the survey of the top the the survey of the complete which all else revolves — bad fine dramstic presence, and a firmness and eloquence. Else-atrived at the Hammerklavier what Lill decides to inflect expressively, and what be still occasionally be something of a mystery. But bere the effect seeming constrained: adagio sostenuto delivered with ago to build the highest im-pounding embankment dam in Scotland which. now finished. is more than 180 ft (56 metres) high and stretches for a third of a mile across the valley. The face of the dam on the npstream side is faced with rock and on the downstream side is sown with grass. The effect of this grassy curtain edged with planting is to soften the dam's visual impact. The drsw-off and overflow tower adagio sostenuto dellvered with perfect expressive simplicity; the bell-like mezzo voce of the last page was uncommonly baunting drsw-off and overflow tower visible at its top was also liked by the jury, who felt it had a kind of simple modern elegance. But it has to be ad-Ideally, perbeps, I prefer a Hammerklavier finale that is a sbade flercer than Lill's, with more sense of struggle to it, and which proposes therefore a more titanic sense of resolution. mitted that the greatest achievement of this buge eogineering scheme is that it acbleves a balance with its But bis performance bad a powerful cogency none the less, and was never tame, though the resolution was calmer; and the Immediate environment. It is the care that has been taken to clarity of the delivery was exceptionally potent — I bave rarely heard a Hammerklavier fugue so clearly structured in combine all the large-scale ele-ments and relate them to the of op. 10 no. 3 was one of the rarely heard a Hammerklavier best things in the opening fugue so clearly structured in recital of bis series; and like-wise the great slow movement every level of the counterpoint, of the Hammerklavier—the sub- were so clearly audible.



#### The Megget Reservoir, Selkirk, Scotland

Such care and concern is what is needed in the inner city and everywhere that man's activi-ties dictate the shape of his environment. The FT Award was founded

The FT Award was founded to promote a higher level of enviroomental concern in all kinds of places where people work. The care the architects and engineers have taken at the Megget Reservoir makes It a very worthy winner of tha 1986 Award.

A sports centre, an office building, a supermarket and a railway building are the foor projects commended by the jury. projects commended by the jury. The West Swindon Leisure Ceotre, now known as the Link Centre, was designed by the Thamesdown Borough Council Architects department, with Anthony Hunt as the engineer. It contains a remarkable number of disparate activities and this is reflected in the some-what agreeably nd hoc nature what agreeably nd hoc nature of the architectural solution. The county council provided a library, offices for trading standards as well as social services and counselling. The borougb council provided an lce rink, a multi-purpose hall, a swimming pool, squash courts, snooker tables, health club and facilities ments and relate them to the council provided an Ice rink, a surroundings. They are good in multi-purpose hall, a swimming the details of their design and as large elements in the total tables, health club and facilities composition. for the arts and crafts. There Tha main reason for this are also a large number of scheme winning is because of its rooms for social clubs, meetings reconciliance.

A small addition to an exist-ing major railway station wins the fourth commendation of the jury. It is at Newcastle and is a new Travel Centre, designed by the British Rail regional architect working from the chief architect's office in York Ar a countion it deals enthusiasm for this whole scheme, especially as it was clear to see that it was a bighly successful venture -- crowded York. As a solution it deals with a lot of problems that occur frequently. Newcastle Central Station is a Grade II\* successful venture — crowded and energetically used but atanding up to all comers. The materials used and the bright colours contributed to a vigorous place and ona clearly enjoyed by those using it. It was not awarded the prize because the speed of construc-tion did seem to bave led to some inconsisteocies in details and junctions. Listed Building, designed in the late 1840s by John Dobson. It has immensely long curved platforms and apparent acres of cast-iron arcbes. The Travel Centre is designed as a contrast

to the 19th-century station and had to fit within a height restricand junctions. In Canterbury the assessors were favourably impressed by the lively design of the Sainstion in preserve the profile of the Victorian roof. The jury liked its independ-ence and simplicity in the bury's supermarket. This was the result of a competition and detail of the glass and structure, feeling that the centre, "has neither the somewhat temporery quality of so many post-war was designed by Abrends, Burton and Koralek with the engineers Ernest Green and Partners, It is a powerful repreinsertions into our great stations, nor does it seek to sentative nf an organisation keen to raise architectural standards for a type of building copy the station itself; rather it is its own hold tensils and which is, by its nature, difficult to fit in to the envirooment. joyful self, in scala with and a complement to the fine build-

Ing in which it sits." It has been an excellent year for the high general level of architectural quality. Tha jury looked at all types of new build-At Canterbury the architects have succeeded in creating an elegant roof atructure that the jury considered to be a com-plement to the cathedral. Tha store looked brillient and sparklingly clean when the jury

A Mouthful of Birds/Royal Court

Financial Times Monday December 1 1986

#### **Michael Coveney**

mondane building type on a aensitive city sita which won tha jury's respect—in particular the decision not to adopt the historical pastiche too often favoured by supermarket designers. The Sup Alliance office build. Tha Sun Alllance office building at the Southwater Business Park in Lennox Wood, Horsham,

The Bacchae is a great play that changes colour every day. Dionysiac ecstasy is easily interpreted as hysterla emanat-ing from a cult of violence. In the past two decades, the orglastic impulse has been claimed as a moda nf free theetrical expression. Now Joint Stock, in this fascinating cabarst, scripted by Caryl Churchill and David Lan, direc-ted by Ian Spink and Less Waters, grayple with the under side of urban aspiration whila risking total poetic resettle ment of Euripides. Nobody who has complained aboot old-fashioned textual values and naturalistic settings of the Royal Court can com-plain about this. The tree on which Dionysius cataputted built into a split level design (by Annia Smart) where a bored telepbonist, an acupunc-turist, a swinging vicar ("II don't believe God is necessarily

Park in Lennox Wood, Horsham, Susser, wes designed by Michael Aukett Associates, with Anthony Hunt Associates as the engin-eers. It stands in a drametic setting — a new count? park created from a derelict brick-works with some beautiful lakes. Because it is a high security company building, full of computers, a solntion had to be found to the siting that would both protect and enhance the premises. the premises. The solution was a tried and tested one for country bouses, a pavilion set on a plateau with a ha ba around it to conceal bored telephonist, an acupunc-turist, a swinging vicar ("I don't believe God is necessarily male"), the weight-lifting unemployed and the betrayed accretary make their excuses end levitste. Forming a Pina Beusch chorus line of scratch-ing deding and acapatiling the discreet accurity fencing. A simple steel framed structure A simple steel framed structure with external brise-soleil makes for an elegant, simple and well detailed pavilion. Tha jury considered that it made for " an excellent working environment." The views from the offices are good and tha device of a top lit central spine to the building does bring: light into a deep plan aet of offices. The environ-ment of large computer suites is not easy to design. Here it is well done. A small addition to an exist-ing major railway station wins

Beusch chorus line of stratch-ing, fiddling and ear-pulling gestural uniformity, they are possessed and transported to a stranger plane of existence. Miss Churchill in particular is pushing her switchback, sex change, political style of Top Girls and Cloud Nine into a new dimension taking on bhard perdimension, taking on board per-formance art and new dance patterns as well as the classic

patterns as well as the classic repertoire. A rape becomes a maternal coddle; a son becomes a rapist. Dionysius, a household god, is seen tumbling through a window frame in dread locks

memberment of Penneus by his own mother, that scene moulded into scenes of psychic reveoge, reports of casual mntiletion, urban madness and knifa attacks. The curative powers of alternative medicine, magic and pacific accommisment, are invert social commitment, are inven-

tively mocked The production, noticed bere by Martin Hoyle when pre-miered et the Birmingham Rep, is odd but compulsive and, above all, it is performed with guite tremendous conviction and éclat. A reading of the script (£1 from Methueo) is recom-

mended. But so is your partici-pation in an event that, for all its maddaniog opacity, is in fact a genuine experimental depar-ture of physical bravery and intellectual validity. The other actors, all excellent, are Tricia Kelly, Dona Croll, Christian Burgess (unemployed Derek and

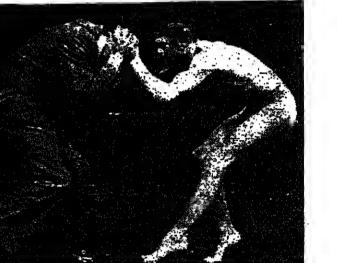
Burgess (unemployed Derek and transvestite Pentheus), Vivieone Rochester and Amelda Brown.

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#### Trade fairs and

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Philippe Giraudeau and Stephen Goff

and counselling. The borough council provided an lee rink, a multi-purpose hall, a swimming pool, squash courts, smooker sidered the outside to be a sporklingly clean when the jury risted it. The members constanter units to large scale science parks. From Enterprise Zones to water also a large number of rooms for social clubs, meetings and mothers and children. The jury commended the think cleater divertion and the rather ordinary back-up and standard of the design of the stopened clements under the great in elevation and roof did not areas of the scopened rooms of the scopene. Again It was the imaginative response to a fairly wide scopene rooms to a fairly welcoming us to a starting we inanely welcoming us to a nuclear-free zone, ona must couseen being instructed (bere un-successfully). The activity in cede that there are madder things to spend public money question is flying. The Ber-noullis were a family of mathematicians and inventors ÓΠ. As with their previous "theatre piece," a futuristic and who discovered the principle of aerodynamics a century and stylish look at women in the Stock Exchange, the company a-half ago. The first part of the 60-mioute show consists has the advantage of Julian Cripps's striking set. White canvas covers the floor, its scalinged edga drawn up in irrelargely of suspended figures rising, falling and swinging. Speech is confined to monologues for Miss Paul, notably on albatrosses and swifts. The gular shapes against the back wall, one great batwing outline pulled taut overbead. Three stalwarts nf the com-pany are joined by two new latter fly desperately fast, un-able in descend easily, in an Three statwarts of the com-pany are joined by two new caused by parasites. Camilla faces and three musicians for Saunders's music is both in-a slightly muted exercise m strumental (including wineglass the themes of gravity and flight. rims) and vocal (homming, Birte Pedersen, who also chattering; wordless song). An directs, no longer comes on like intriguing but slight evening.

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gallery to bouse the Thyssen-Bornemisza collection at the Villa Favorita, Lugaoo, Switzer-

norga Bergeé di Astur Ma

ducted by Luis Garcia Navarro, touring Australia after Christ-with soprano Rosarin Andrade mas. as his guest.

Rudolf Nureyev, 48, who Birmingham Repertory Theatre this summer celebrated the for 11 years, is to become 25th anniversary of bis defec-tion from Russia, relurns to the val Theatre in Scotland from British stage this week as April 1 1987.

The Allied Irish Bank is

The new gallery will house and will coooect to the existing gallery which bas a permaoent collection of old masters.

a natural choice for the Award.

Petteri Salomaa/New Zealand House

#### **Andrew Clements**

\* Rula Lenska and Dennis Placidn Domingn returns to the London concert platform on December 17 at Wembley Arena, accompanied by the Philharmonia Orchestra, con-ducted by Luis Garcia Navarro. Rula Lenska and Dennis Waterman appear in a new production of Tom Stoppard's The Real Thing at the Yronne Arnaud Theatre, Guildford, mail December 13 prior th mas. Clive Perry, director of Birmingham Repertory Theatre Gor 11 years, is to become lirector of the Pitlochry Festi-ral Theatre in Scotland from April 1 1987. The distinguished line of Salomaa's is not at all like that; But two groups of songs to baritones and basses that has baritones and basses that has baritones and basses that has production of Tom Stoppard's thurde in the person of the young baritone Petteri Salomaa. He gave his first London recital mas. Clive Perry, director of the structural exchange or 11 years, is to become lirector of the Pitlochry Festi-ral Theatre in Scotland from April 1 1987. The archetypal Finnisb mala

The distinguished line of Salomaa's is not at all like that; But two groups of songs to of histrionics, lifted what are

November 28-Dec 4

Opera to a broken radio, as part of the hunchtime concert series for the Wall Street area. (Mon., 12.15). (Wall & Nassau Siz. 209 6320).

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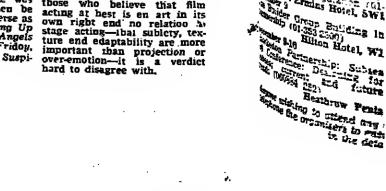
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### **Obituary/Cary Grant**

#### Nigel Andrews

**Nigel Andrews** Cary Grant, the suavest, wit-tiest romantic leed in the chema's history, who died yesterday aged 52, had the unlikeliest background finr a Hollywood film star imaginable. Born Archibaid Leach in Bristol, England, in 1994, be arived on the West coast of the United States in 1932 with experience as a circus acrobat and minor English musical star: that, plus an accent that was untraceable then and remained untraceable A sort of clotted, bigh class and wisecrack. It was legal tender in sinister thrillers and screwball conselies. That voice prnceeded, together with his good looks, manly cleft chin

(254 3776).
CHEAGO
Cheago Symphony (Orchestra Hall): Erich Leinadorf conducting. Dale Glevenger born. Mozart, Rindemith, Mozart, Ravel, Chabrier (Thuc). (435 8111).
TOKYO
Inderfink Festval of Contemporary Music. Composers Harvey Solberger, Terry Nievey Solberger, John Marby (Thur). Anahi Hall, Molling Bidg, Yurakti-cho, near Guna (353 913); 227 9900).
Merkin Hall (Goudann House); For the Love of Music. Pamela Mis Paul plano, Elchard Sortomme violin, Warren Lash cella, David Shifrin clarinet. Weber, Rachmaninov, De-en piano, Richard Sortomme violin, Warren Lash cella, David Shifrin clarinet. Weber, Rachmaninov, De-en piano, Richard Sortomme violin, Warren Lash cella, David Shifrin clarinet. Weber, Rachmaninov, De-en piano recital with Ari Kavafina violin, Timothy Eddy cello, Faure, schuman (Wed). 57th w. of Broed-way (362 8716).



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### "What's special about these **Danish companies?**"

ABN Bank Copenhagen Branch, Assurandør-Societetet, Barclays Finans A/S, Berlingske Tidende, Bikuben, Boliden, Buch+Delchmann, Danish Steel Works Ltd., Danish Telecom International A/S, Danish Turnkey Dairles Ltd., Dannebrog Shipyard Ltd., A/S De Danske Sukkerlabrikker, Domi A/S, Duracell-Daimon ApS, East Asiatic Co. Ltd. (A/S Det Østasiatiske Kompagni), A/S Elizabeth Arden, Ess-Food, F. L. Smidth & Co. A/S, Forlaget Management A/S, Frisko Sol Is A/S, Ginge Brand & Elektronik A/S, Gränges Danmark A/S, Grundtos International A/S, Haldor Topsøe A/S, Hellerup Bank A/S, Henriques Bank Aktieselskab, Kreditforeningen Danmark A/S, Kommunedata, Midthank, A/S Niro Atomizer, Norsk Hydro Danmark a.s, Nykredit, Price Waterhouse, Privatbanken A/S, Revisionsfirmaet C. Jespersen, Skandinavisk Tobakskompagni, Statsanstatten for Livsforsikring, The Jutland Technological Institute, Aktieselskabet Varde Bank. Danish Steel Works Ltd., Danish Telecom International A/S, Danish

#### They are all regular readers of the **FINANCIAL TIMES • European Edition**

For further information about subscription rates in Scandinavia, please contact K. Mikael Heiniö in Copenhagen:

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### Arts Guide

#### Music VIENNA

Brno Philharmonic Orchestra: Bee-thoven. Musikversin (Mon). Gwyneth Jones song recital with Geof-

Gwyneth Jones song rechni with Geor-frey Parsons, piano. Schubert, Wagner, R. Strauss, Berg. Musik-verein (Wed). Minsica Antiqua. Clemencic Consort led by Rene Clemencic. Musikverein (Thur).

#### NETHERLANDS

METMERLANDS
Bottardam, De Doelen. Recital Hall; Fortune's Fire Late Song Ensemble led by Carl Shavitz, Intz, with Julian Pike, tenor, and Julis Hodgson, vio-la da gamba: Bartlett, Jones, Cor-kine, Greaves, Dowland, Ferrabosco (Moa). Concerto Rotteriam string ensemble conducted by Heinz Fries-en, with Hans Roeiofsen and Rudolf Senn, double bass: Rottesini, Rossi-ni (Tue). (414 29 11).
Ubrecht, Vredenburg, The Hague Phil-harmonic conducted by Heinz Wall-harmonic conducted by Heinz Wall-barg, with Zino Vinnikov, violin: Dvořák (Tue). (31 45 44).
The Netherlands Chamber Choir con-ducted by Peter Philips with works by Philips, Byrd, Bull, Parcell. Mon in The Hague, Oud-Katholiske Kerk, (1020-62 51 99).

Kerk, Itte in Amsterution, Weater Kerk (020-62 51 99). Grouinges, Oosterpoort, The Nether-lands Wind Ensemble and the Neth-erlands Chamber Choir under Lucas Vis: Wagemans (Tue). (131044).

LONDON

#### i Haitink. Brahms. Royal Bernard Haltink. Brahms. r Festival Hall (Mon). (928 3191).

National Symphony (Concert Hall): James Conlon conducting, Daniel Barenboim piano, Rudolf Firusny piano. Beethoven, Stravinksy, Ravel (Tue); Charles Dutoit conducting, Former, Charles Dutoit conducting, Kenneth Flegel tenor, John Cheek basa, Terry Cook basa, All-Berlioz programme. Kennedy Center (25, 272)

Daniel Barenboim, appearing in Washington

Royal Philbarmonic Orchestra con-ducted by Kurt Masur with Kyung Wha Chung, violin. Beethoven and Prokofiev. Royal Festival Hall

Prokofiev. Moyal Festival Hall (Tue). BBC Symphony Orchestra conducted by Sir John Pritchard with Dmitri Alexsev, piano. Prokofiev and Shos-takovich. Royal Festival Hall (Wed). London Philharmonic conducted by Semyon Bychkov with Radu Lupu, piano. Panufnik, Mozart and Men-delsochn. Royal Festival Hall (Thurd.

(Thur).

New York Philharmonic (Avery Fisher Hall): Zubin Mehta conducting, Murray Perahis, piano. Beethoven, Bruckner (Thur). Lincola Center (874 2424). The New Bel Canto (Federal Hall): Shelly Hirsch performs a mixed rep-ertoire, showing off a voice that ranges in sound from the Peking

programme. (254 3778).

NEW YORK

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Parliament

TODAY

TOMORROW

ments relating to the multi-fibro

arrangement. Lords: Minors Contracts Bill,

second reading. London Dock-lands Rallway (City Extension) Bill, third reading. Unstarred question on speech therapists.

### **APPOINTMENTS**

**Burmah Oil finance chief** 

#### Finance

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The following is a record of the principal business and financial engagements during the week. The board meetings are indications are not always available whether dividends concerned are intertime or finals. The sub-divisions shown below are based mainly on last year's time

COMPANY MEETINGS Primits Security. Charlos Cross Hotel, The Strand, WC. 12.00 Hotel, City Security Centrel, Queen's Hotel, City Security Lects, 12.30 Kiniwoot Court, Fund, 20 Fenchurch St., Sci 17.45 SC. 17.45 Inden end St. Lawrence Inv. Doneter Homen 17-R1 Mark Laon EC 12.20 patrion Zochemia, Pictuality House, Pic-delity Picta, Machenter, 12.00 SCARD MEETINGS----

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**Trade fairs and exhibitions: UK** 

THURSDAY DECEMBER 4 COMPANY MEETINGS - Rortland Sta W, 12.00 invitis, Barriagtos House, Gresham C., 9.00 Computers, Manual C, 9.00 Empoters, Maylord Mahor Hotel, rd Road, Maylord, Safriey, 10,00 Oll Participations, Institute of Engineers, 75 Mark Lane, EC,

**DIARY DATES** 

Guildrone Institutions. Institute EC, Marine Engineers, 75 Mark Lane, EC, 10.45 Mitchell Cotts, Baitic Exchange, 14-20 St Mary Aze, EC, 12.00 Stewart Naim, Birchwood Drive, Wast Heath Road, Hampstaad, NW, 13.00 Thorpe (F, W.), Birmingham, Chamber of Counterce and Industry, 75 Harbourne Rd., Airmingham, 3.15 Yan Dieman's Land, Southampton House, 517 High Noborn, WC, 12.00 BOARO MEETINGS-Flashe

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defence capebility, and the case for retaining the nuclear deterrent. Commons: Advance Petroleum Revenue Tax Bill, second reading. Norfolk and Suffolk Select committees: Scottash Affairs — subject: bospital provision, Witness: Common Broads Bill, second reading. Debate on EEC documents covering emergency measures in the dairy sector. Services Agency (Room 19, 11 am). Employment - subject: the work of the department Select committee: Public of Employment group. Wit-nesses: Lord Young, Employ-ment Secretary, and Mr Kenneth Clarke, Paymaster General (Room 8, 4.15 pm). Seciel Secretary, Eukland Accounts-subject: financial management initiative. Witgesses: Sir Peter Middleton, HM Treasury and Miss Anne Mneller, Management and Per-sonnel Office, Cabinet Office (Room 16, 4.45 pm). Social Services - subject: primary bealth care. Witnesses: British Medical Association: Pharmaceutical Society of Great Britain (Room 21, 415 Comments: Opposition debates on "the scandal of insider deal-ing" and "the misery of fuel poverty." Debate on EC docu-

Great Britain (Room 21, 4.15 pm). Environment — subject: Property Services Agency. Witnesses: Sir Nigel Mobbs, Lord Chancellor's Department and officials (Room 20, 4.30 pm). Committee on Unopposed Bills — River Humber (Bur-com Outfall), and the Mersey Docks and Harbours.

THURSDAY

Select committees: Education, Science and Arts-subject: stu-Commons: Remaining stages of the Advanced Revenue Petroleum Tax Bill. Motions dent awards, Witnesses: Education Department officials (Room 15, 10.45 am). Parliamentary dealing with Northern Ireland business. Commissioner for Administra-tion-subject: reports of the Health Service Commissioner.

Lords: Recognition of Trusts Bill, second reading. Ministry of Defence Police Bill, second reading. Broadcasting Bill, second reading. Unstarred question on Wytch Farm. Ealert Committee Action Witnesses: Wandsworth Health Authority and Dudley Health Authority (Room 5, 4.30 pm). WEDNESDAY

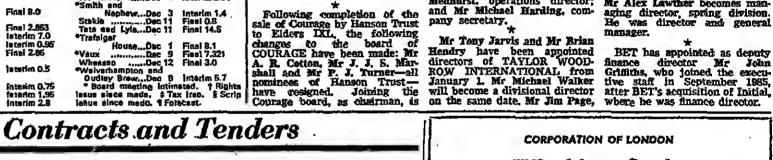
WEDNESDAY Commons: Opposition Day — debate on the need for a select committee of privy counsellors to oversee the security services, followed by a debate on defence. Late debate on EC document relating to research Select Committee: Agricul-ture — subject: effects of Witness: British Agrochemical Association (Room 16, 10.45 am).

FRIDAY Commons: private members and technological development. Lords: Debate on Britain's

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At BURMAH OIL Mr R. N. A. Mr John D. Elliott, chairman joint managing director, and Mr Wood bas been appointed group inance director from January 1 and will be joining the board. From the end of 1981 until 1986, Mr Wood was chief executive of United City Merchants and was responsible for development of UCM's international businesses. De Momb be joined Director Group director, and Mr Mr Mood was chief executive of United City Merchants and was responsible for development of UCM's international businesses. De Momb be joined Director Group director, and Mr Mr Mood was chief executive of UCM's international businesses. Dead will be Mr Ken R. Miggins, De Momb be joined Director Group director, and Mr Mr Mood was chief executive of UCM's international businesses. In March be joined Dixons Group where he undertook a special assignment as deputy managing director of the main subsidiary, Currys.

Mr Tony Odhams has been appointed sales director of the Superseal division of KLEE-NEZE. He was general sales manager.

Mr Robert P. Wilson, head of planning and development at RTZ since January 1985, has ALZ SINCE January 1935, has committee, in succession to Sir been appointed a director of Alex Jarrait. Mr Armstrong is THE RIO TINTO-ZINC COR. personnel director of Metal Box. PORATION from January 1.

bes appointed Mr Jehn Ward as strategic planning director and promoted Mr Michael Bray as client services director. Mr chient services director. Mr Ward was previously deputy chairman of Aspect Hill Holk-day.

Mr L. C. J. Brown, e partner in Pannell Kerr Forster, has been appointed e non-executive director of LONDON & ASSO CLATED INVESTMENT TRUST.

\* Mr Leonard A. Bishop, Mr James Freier and Mr Frederick J. Gardiner have been re-elected directors of ASEE EXHIBI-TIONS. Mr C. (Sid) Royle was elected a director. He is cur-rently chairman of the Associa-tion of Supervisory and Execu-tive Engineers.

Ms Lynne Farmer has been appointed a director of SOLER TOURISTE, wholly-owned travel subsidiary of UniChem. She was manager of the conference and incentives division.

Cr Federico A. Slinger has been appointed chairman of EURO-LATINAMERICAN BANK, London, and Mr Louis de Blèvre bas been appointed vice chair-man. Cr Slinger is chairman of man, of Singer a Charman of Banco de la República Oriental del Uruguay and Mr de Bièvre is a member of the managing board of Algemene Bank Nederland.

Mr Hugh Long, Chairman of

\*

appointed general manager of THE NATIONAL COMMERCIAL

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appointed managing director of SIMCARE. He returned to the UK from France in 1982 to Join Eschmann, where he was appointed managing director in 1985. board will be Mr Ken R. Biggins, group director, administration and dinance of Elders IXL, and Mr Peter W. Jonson as finance director designate. Mr Jonson joins Courage from his current role as genral manager, account-ing, for Elders IXL. He will take up the post vacated by Mr N. M. Bryan who has resigned. Mr Frank J. Jones bas been

appointed deputy chairman of TELFORD DEVELOPMENT CORPORATION from December L. He succeeds Mr John Parry

Mr Geoffrey Armstrong has been appointed chairman of the CONFEDERATION OF BRITISH INDUSTRY'S employment policy who has retired. Mr Jones is chairman of the Shropshire District Health Authority.

P-E International, is to join the board of B. ELLIOTT on Decem-ber 1 as a non-executive director. Mr Lang is also deputy chairman of the Design Council. \* Sir Ronald Ellis has been Mr John Sweet, currently menaging some £450m as a man of T. I. P. EUROPE, parent senior fund manager with the Prudential, joined BALTIC TRUST MANAGERS, currently managing £20m, on December 1. DOVIGE DAVE PEPARACE Mr Robert S. Einzig, vice-president and treasurer of Transamerica Corporation, has been appointed a non-executive director of SEDGWICK GROUP.

Mr David B. B. Smith is to be the new chief executive of DUNFERMLINE BUILDING SOCIETY. He is deputy chief executive, and takes over from January 1 following the retire-ment of Mr Walter Hutchison. Mr J. ML (Ian) Glover, secretary of the projecty is to become BANQUE BELGE, London, has appointed Mr David Britton as a director of the bank. He will retain responsibility for foreign exchange and treasury activities in addition to his nonof the society, is to become deputy chief executive. Mr Kenneth W. E. Cowe, currently general manager (finance), also asumes the duties of secretary. executive directorship of the bank's subsidiary, Quin Cope. Mr Anthony W. More has been

Mr Anthony Sweeten has been appointed managing director of T. S. HARRISON AND SONS in succession to Mr J. R. Hender-son. Mr Sweeten was works BANK OF SADI ARABIA'S new London branch which has full licensed deposit taker status. The following appointments have The following appointments have also been made: Mr Colin M. Brumpton — manager treasury and foreign exchange depart-ment; Mr Rodney G. Bath — manager credit and marketing department; and Mr Jinx Graffley-Smith as European director.

Mr B. N. Bowes has been appointed a non-executive direc-tor of MORGAN GRENFELL GROUP. He is a director and deputy chairman of Willis Faber.

Following the acquisition of ACKROYD AND ABBOT has Jetsave by the Greyhound Cor-poration the JETSAVE board is appointed Mr Barry Wilkinson as managing director of sub-sidiary Eric C. Flower, Sheffield. now as follows. The chairman is Mr Ron Blakey, vice-president and managing director, Grey-hound Lines International. The The TWIL GROUP has appointed Mr Dilwyn Scrivens as other directors are Mr Chris other directors are Mr Caris Smart, managing director; Mr Jehn Standley, sales and market-ing director; Mr Martin Johnson, financial director (who is also managing director, Tinsley Wire (Sheffield). He was director and general manager. Dr Eddle Veys is appointed managing director, Rylands - Whitecross, He was director and general manager. Mr Alex Lawther becomes manfinancial director, Greybound Lines International); Mr Geoff

Medhurst, operations director; and Mr Michael Harding, com-

representative.

#### CORPORATION OF LONDON

#### 器Barbican Centre

The Barbican Centre provides London with a major complex of Theatres, Concert Hall, Cinemas, Art Gallery, Public Library and Conference and Exhibition facilities. This prestigious complex is owned, funded and managed by the Corporation of the City of

CATERING CONTRACT

The contract encompasses 3 Public Restaurants, 1 Staff Restaurant, 11 Bars, 1 Wine Bar, Coffee Points, services to 2 Exhibition Halls and extensive function catering. Turnover in the year 1985/86 was circa 24.21m. The contract is for the provision of all catering services within the Centre for a five-year period commencing 6 January 1988.

The Corporation of the City of London will be invicing tenders for the provision of catering services. Established catering contractors should notify their interest in writing to:

The Director

Barbican Centre (CATCON)

Silk Street, London EC2Y BDS

Notification to reach The Director by 12 December 1986

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Guangzhou

December 10-16 International Food, Pharma-ceutical Processing and Package Exhibition (01-236 2398)

A FINANCIAL TIMES CONFERENCE

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UN (04868 21231) Wembley Conference Centre January 2000 January 7-11 London International Boat Show 296275) 20022 54511) Earls Court Metro Exhibition Hall, Brighton tre January 22-25 Ideal Home Exhibition (0202

Carrent International Agricultural Equip-ment Services and Technology Techniques Exhibition — AMEL-Exhibition (01-891 5061) (until BAT (01-439 3964) Paris December 2) Beijing December 10-16 November 23-December 7 Handicrafts in the Domestic Handicrafts in the Domestic Sphere Exhibition — Heim & Handwerk (01-486 1951) Munich December 4-7 Matumn and Winter Ready-to-Wear Fashion Fair-PORTEX (01-493 0212) Porto Porto December 4-7 Middle East Electronics Conte-munications Show and Confer-ence-MECOM (01-436 1951) (01-433 0212)PortoIntracationsShow and ConferenceDecember 4-7ICAF/LA 86—International Con-<br/>temporary Art Fair (01-458 1951)BehrainICAF/LA 86—International Con-<br/>temporary Art Fair (01-458 1951)January 13-18December 8-13Los AngelesInternational Furniture Fair (01-<br/>930 7251)December 8-13International Chemical Indus-<br/>tries Exhibition—INTERCHIME<br/>(01-439 3964)January 13-18International Chemical Indus-<br/>tries Exhibition (01-486 1951)International (01-486 1951)

#### **Business and Management Conferences**

December 2 The Royal Aeronantical Society: The Airports Act—its effect on the air transport industry end users (01-499 3515)

The Airports Actuality the air transport industry en-users (01-499 3515) 4 Hamilton Place, W1 Becember 3-4 British Venture Capital Associa-tion/FT: Venture capital finat-cial forum (01-621 1355) Hotel Inter-Continental, W1 Becember 4 December 10 Business Briefings: New Work-ing petterns (01-581 1284) London West Hotel, SW6 December 11-13 FT Conferences: World pulp and paper conferences: World pulp and paper conferences: W1 Hotel Inter-Continental, W1 Hotel Inter-Continental, W1

Institute of Directors: Encenve remuneration, current practice -future trends (01-839 1233) 116 Pall Mall, SWI December 5 The Institute for Fiscal Studies: The Institute for Fiscal Studies: The Future of European Com-Is Belgrave Square, SWI Park Court Hotel, W2 December 5

Pars town-December 5 IBC: Back office systems after Big Bang (01-236 4080). The City Conference Centre, EC3

December 8 IBC: Accessing the US equities market (09323 55244) Inter-Continental Hotel, W1

BC: Accessing market (09323 55244) Inter-Continental Hotel, --December 8-9 Royal Institute of International Affairs: Energy 1986-lessons from turmoil (01-930 2233) Chatham House, SWI December 9 Trastitute for Fiscal Studies: Trastitute for Fiscal Studies: out regulation (01-and regulation (01-Tratel, SWI

636 3784) St Laman Building in January 21-22 December 9 The Builder Group Building in January 21-22 The Builder Group Building in January 21-22 IBC: Control accounting and partnership (01-353 2300) Hilton Hotel, W1 taxation of bank risk (01-236 4050) Cafe Royal, W1

Tecember 9-10 Inscember 3-104080)Uafe Royal, WIHawkedon Partnership: SubseaJanuary 2738 Conference: Designing for<br/>Subsea; current and futnre<br/>trends (060884 252)January 27Longman Seminars: Relief from<br/>Capital Gains Tax (01-242 4111)<br/>Barbican Centre, EC2

Anyone wishing to attend any of the above events is advised to telephone the organiser's to ensure that there has been no change in the details published.

Aracouz Celuiose SA Mr Fumio Tanaka Of Paper Company, Ltd December 1-2 FT Conferences: World Tele-Hotel Inter-Continental, WI 621 1355) Hotel Inter-Continental, WI 621 1355) Mrs Norma Pace American Paper Institute, Inc Mr Ron Aurell Hotel Inter-Continental, WI Jaakko Põyty Oy December 10 CBI: Finding money in Brussels (01-379 7400) Centre Point, WCI Mr Jori Pesonen Valmet Commenter Mr David A Clark

Kymmene-Strömberg Corpor **Dr Slegfried Meysel** Leykam-Mürzteler Papier und Zelistoff AG

December 16 CBI/International Finance Corporation: Investment oppartuni-ties in developing countries (01-379 7400) Centre Point, WCl 379 7400)

December 16 The Henley Centre for Forecast-ing: At the political and economic

Company. Address.

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#### MINISTRY FOR ENERGY AND CHEMICAL AND PETROCHEMICAL INDUSTRIES

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NAFTAL is selling the following Refinery equipment: Eleven (11) Distilling Columns; Forty (40) Heat Exchangers and Water Condensors; Fifty-six (56) Air Coolers and Accessories; Two (2) Transformers 60/5.5 KV and 29.2 KVA.

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#### COMMONWEALTH OF AUSTRALIA

COMPACINIVEALTH OF AUSTRALIA Request for Tender The Purchasing and Disposed Division at the Commonwealth Department of Local Gavernmeet and Administrative Services is to dispose of Rolls Royce Messor Sngines and sparse. Thism am 110 of these V12 petrol engines for asis. The Metsor is a derivative of the Ismaus Marile Sirchit angles. Special tools, testing equipment and sparse for the engines make up 69 separate sale lots. Also on offer ere Rollin Royce B80 and B40 engines sparse, Marrie sengleses and David Brows Z51 geerboxes. As the Commesswesth will never sgale sell such equipment, this is the chance to buy the fellowing unique equipment.

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Group A - 2 Fraude OPYR E engine tast bed dynamemetare
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from 8th to 12th Oacember, 1988.
Tanders will close in Sydeey. Australie at 2pm Eastend Standard Daylight Saving time on 20th Janusry, 1987.
Tendor offers will close in Sydeey. Australise at 2pm Eastend Transform Trade Commission: Australie House, Standard Daylight Saving time on 20th Janusry, 1987.

#### THE MINISTRY OF EDUCATION IN THE YEMEN ARAB REPUBLIC

#### Invites offers for

Printing and reprinting school text books, supply of equipment and chemicals for laboratories, teaching materials, white and coloured chalks, school furniture sets for primary, preparatory and secondary schools.

Particulars for the Tenders/Documents for the offers are available at the Yemen Embassy, 41 South Street, London W1, upon a non-refundable payment of the equivalent of US\$100 for each part of the Tender. Bids will be received by the Ministry of Education, Purchase Department, until the 31st December, 1986, and will be opened in public at 10.00 a.m. Sana'a local time on the 3rd January, 1987.

BUCKINGHAMSHIRE COUNTY COUNCIL Legal Notices SUPPLY OF TELEPHONE SYSTEMS IN THE MATTER OF

TESE ME LTD. Tenders are invited for the supply of a number of SPC based telephone systems for in-stalizion at various County Council locations over a 12 month paried AND IN THE MATTER OF THE CYPRUS COMPANIES LAW CAP 113 Council locations over a 14 month period. Requirements vary in configura-tion but will not exceed 25 exchange lines and 200 exten-sions (for systems of greater size individual tender exercises

NOTICE IS HEREBY OIVEN that the creditors of the zbove-mamed Company, which is being voluntarily wound up, ere required on or beiem the 2nd day and the second of the second the second the second the names and addresses of their Solicitors (II any), to the undemigned Mr. Antony Heilraustes, FCCA, of Juns Heurs, 3 Them. Dervie Street, P.O. Box 1012, Nicosie Cyprus, the Equidator of the seld Cempeny, and it so required by notice in writing from the seid Liquidator, ere, person-etty or by their Solicitom, to come in and prove their debts or or in default thereof they will be excluded from the benefit of any distribution made before such debts ere proved. Deaved this fat day of December 1985.

A. HAJIROUSSOS, FCCA,

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Invitation to tender documents can be obtained from: The County Secretary and Solicitor,

Solicitor, Bockinghamshire County Council, County Hall, AYLESBURY, HP20 IUA. Dated this fat day of December 1986.

Tenders are to be returned by 12.00 noon on Decembar 15th,

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#### **FINANCIAL TIMES** BRACKEN HOUSE, CANNON STREET, LONDON EC4P 48Y

Telegrams: Finantimo, London PS4. Telex: 8954871 Telephone: 01-248 8000

Monday December 1 1986

One reason for the erratic quality of the British presi-dency has been the election of ministers chairing the respec-

tive council meetings. Mr Peter Brooke, for example, the Mini-ster of State ot the Treosury,

bas excelled as chairman of the Budget Council. Mr Alan Clark,

the Trade Minister, has on the contrary, proved to be e poor choica for the delicate diplo-

macy required in the Internal

The selection of air fares as

e key issue for progress has proved precarious: Mr John Moore, the Transport Minister

(another well-regarded chair-

man), has had to compromise

domestic euclence while per-suading his partners, with a deal thot merely opens e crack in the air fares cartel. In that case, the British have

bent over backwards to be "presidential"and seek a com-

promise. In others, the Govern-

ment seems to have used its position in the chair to be blatantly partisan. In seeking

The lesson, thus far at least,

on agricultural reform and the

Market Council.

trageur who carried out many of his deals through the UK. On Wall Street, the atmo-

sphere has been transformed by the downfall of Boesky and the

widening investigations of the Securities and Exchange Com-

mission (SEC) into the relation-

mission (SEC) into the relation-ships between the takeover arbitrageurs, investment banks and corporate raiders. Norm-ally ebullient dealmakers have withdrawn into silence and the

effect of a Congressional back-lash against takeovers is ex-

pected to blte in the new year.

the crackdown is forcing the compliance officers of the securi-

ties bouses to review their rule-books. Should corporate finan-

clers consult their securities arms about an impending take-

over bid? Should the com-

panies involved in an impend-

ing bid be put on a " restricted " list to stop the market-makers

and fund managers dealing in their shares—or would tha list merely alert miscreants? It is legitimate to trade on rumour or partial inside information,

like seeing a company'a finance

director in a conference room with a mergers and acquisitions

As public concern at insider

trading and other forms of City fraud has increased over the

past year, attention has focused

on the role of the DTI: is lt

team

On both sides of the Atlantic,

### **Britain's EEC** presidency

One month to go in Britain's finally prompted Mrs Thatcher six month presidency of the to send a personal pleo to her EEC, and its record so far looks fellow heads of government. patchy. Achievements on the Without a determined polltical the Community lead from the top, vested y reform of interests are always likely to Agricultural prevail in this field. major issues of the Community agenda, especially reform of the Common Agricultural Policy, and swifter progress in scrapping national barriers to Common the Common Market, are very

few to report. Mrs Thatcher is pinning her bopes on two meetings this week to quicken the pace. The trade ministers, meeting in Brussels today, bave a chance to approve a range of internal market measures and the heads of Government of the member of Government of the member states could lend their weight to faster progress ot their summit in London at the end of the week. However, really significant results at this late atage of the UK presidency are probably too much to expect.

#### Great fanfare

on earlier radical bopes in order to get anywhere near agreement among the 12. He may end up by alianating bis When the Britisb Government took over the chair from the Netherlands in July, its ambitions were decidedly modest. Those who spend their lives in the hot-bouse of the 12-nation negotiations in Brussels know full well that the Community is not an organisotion which can suddenly change direction, or produce startling new initia-tives. Efficiency and diplomacy were to be the halimarks of the

Britisb term in office. Back bome, bowever, there support for the British break in diplomatic relations with Syria, for example, Sir Geoffrey Howe offended many of bis has been o tendency to get carried away with public relations hype-the temptation to see the presidency as the colleagues by apparently seak-ing to steamroller them into chance to put one's stamp on Enrope. A British initiative was leunched with great fan-fare to tackle unemployment, agreement. **Realities** rule although it contains little more than familiar ideas. Much was is that careful preparation and diplomatic negotiation are much made of the "rolling action programme" agreed with the Netherlands and Belgium (the more successful than rbetoricand EEC realities almost always next president) to co-ordinate rule in the end. Thus it is very unlikely that the farm 18 months' work to break the as months work to break the backlog of Internal market barriers. There would be a new deal on airline competi-tion as a key part of the proministers will take any dramatie decisions on CAP reform this decisions on CAP retorm turs year, with the West German elections looming just round the corner in Jannary, and Chancellor Kohl anxious about

In the real world, the pro-gress has virtually all been on his farmers' vote. Though dramatic progress other fronts: on the bread-and-butter of EEC life such as cannot be expected, the British external trade negotiations, and will nevertheless be passing on the annual hudget round: and to their Beigian successors in on issues off the formal agenda, January soma solid groundwork such as co-ordination of the fight against drugs and completion of tha internal terrorism

market. These two major issues must continue to dominate the The tortoise-like movement on the internal market, in splte of redoubling the negotiating effort at official levels, bas Community's agenda until substantial results hava been

### INSIDER TRADING **Doubts as the** dragnet widens By Clive Wolman

The OFFICIALS of the Department of Trade and Industry, regarded for six years as the inspector Clouseaus of insider dealing, are suddenly fewer people than the SEC and

In addition, the SEC employs support teams of investigators prepared to pore for weeks through records of trading. private telephone calls, and bank accounts.

of insider dealing, are suddenly causing anxiety in the City. Armed with new, tough investigation powers, the DTI has extended its inquiry beyond the illicit dealings of Mr Geoffrey Collier, Morgan Gren-feil's ex-securities chief, to other suspects. From the corporate financiers in the City's panelled lunch rooms to the market-makers on the dealing floors below, the rumours ebb and flow obout those implicated by Mr Collier or by Mr Ivan Boesky, the disgraced US arbi-trageur who carried out many Since 1981, when Mr John Shad, the new SEC chairman, warned of a crack-down and prosections against insider dealing, the young lawyers be unleashed have become ever more ereative in their interpretations of the poorly-drafted securities laws which, unlike the UK's, fail to define insider dealing explicitly. With one important exception in 1983, the SEC bas been supported by the US judges, whose

#### How the insider dealer does it

THE would-be insider trader gets a job with the corporate finance department of a merchant bank active in mergers and ecquisitions.

Always travelling via a third. country, be visits two tax havens, Panama and Liechtenstein, which have resisted foreign pressure on their secrecy laws. In each country, he sets up o trading company and opens occounts in two or three banks in their names. He only uses banks with no operations or assets in the UK and US. He never tells the banks his

willingness to amend legal doctrines to fit new political pressures bas not been matched

by any English judge since Lord Denning. This support is about to be tested at the highest levels as the case of a Wall Street Journal columnist reaches the Supreme Conrt. The columnist, Foster Winans, is facing imprisonment for trading on "inside" information ln sdvance of publication of his column of company comment,

capable of emulating the recent success of the SEC? Its past record must leave this in doubt. UK insider dealers have so far had much less to fear from By contrast, the DTI investigators are almost entirely career civil servants. Both they, and the regulators than their US counterparts. In the six years two outside inspectors appointed since insider trading was made a criminal offence, 110 cases in the Collier case, the first such appointment in an insider deal-ings probe, lack experience of the type of police investigatory have been referred to the DTL by the Stock Exchange—but only six have led to prosecu-tions against nine individual, all work into frand that is often required. The appointment of of them described by the Ex-change as "small fish." the outside inspectors reflects The DTF's problem is not a lack of activity to investigate; even Boesky considered London the DTI's new tongher mood. Up until now, the Department bas been struggling along with only two or three professionals to investigate the 110 cases

to be leakier than New York. In the first six months of 1986, according to the journal Acquisitions Monthly, the share prices of 19 UK companies sbowed a tell-tale increase of referred to it.

particularly in the period before company announcement. The most common problem has been proving that the individuals who carried out the individuals who carried out the trades were acting on inside information. Because the UK's Insider Dealing Act is less ambiguous than US legislation, there is less scope for finding creative interpretations of the law to catch miscreants. Also the burden of proof in a criminal action is high and the rules of evidence and procedure rules of evidence and procedure constricting. A provision to allow civil actions to be brought against insider dealers was in cluded in a 1973 bill bnt failed to make the statute book. In the US, on the other hand,

real name but arranges for

them to deal through a large London broking firm when-ever they receive coded in-structions ever the telephone. When he picks up inside in-formation, he always trades alone using a call-box. Infor-

mation-swspping rings have been out, ever since Levine and Boesky betrayed their con-tacts. He never trades in large amounts but may break up a transaction into a series of deals from different accounts. He aveids the mis-take of trading just before a old announcement - it makes the market-makers vengeful.

the SEC's energies are focused on civil actions, which require a lower level of proof. Since 1984 it has been able to compel offenders to pay a penalty of three times their illicit profits, even in a civil action.

The most serious obstacles confronting the UK's investigators are the offshore trading accounts and companies used by the larger dealers. Since 1980, about 50 investigations by the centre. Stock Exchange or the DTI have ground to a hait when they turned up nominee accounts where the account holder is not named in foreign banks or companies whose ownership is never

disclosed. The SEC has encountered fewer obstacles. Its greatest success in the 1980s has been in undermining the reputation of tha Swiss bank account as the most confidential medium for illicit transactions,

In response to sustained pres-sure from the US, the Swiss agreed in 1982 to allow their agreed in 1982 to allow their Now that the political beat banks to disclose the identity of is on to give insider dealing costomers suspected of insider probes a much higher priority

Lord Drogbeda, bas been deal

ing in rare books and autograph letters since it was founded in

York in 1761 (moving to Lon-don in 1815) and for soma time

has been keen to expand the print side of its business.

Lazy salling

era."

Indeed, co-operation from the

Swiss enabled the SEC to make one of its biggest catches yet, when a Bahamian subsidiary of a Zurich bank, Bank Leu, revealed the identity of Mr Denis Levine, the Wall Street mergers and acquisitions specialist, arrested for insider dealing in May. The bank fingered Mr Levine after threats from the SEC against its operations in the US. The Babasa

Bahamas government for its part agreed to waive its bank secrecy laws and allow the Bank Leu disclosure, even without any SEC application to its courts, because, it said, of the "peculiar and nnprecedented circumstances of the case." The government of the Cay-man. Islands, the other Carib-

bean tax haven penetrated by the US authorities, has taken similar action, waiving its bank secrecy rules in a 1983 tax case involving a Canadian bank. The Caymans has now signed en agreement with the US allowing a limited exchange of

information. The SEC's campaign has not proceeded totally without frustration, however. Despite the new more open attitude of the Swisa in some cases, Swiss bank secrecy has impeded two large investigations since 1984. Panama has resisted all attempts to breach its bank secrecy and many Carlbbean money-launderers have set up in the South Pacific islands of Nauru and Vanuatu .

Nonetheless, the SEC's achievements highlight the SEC's achievements ingnigot the passivity of the DTL The new Financial Services Act will allow it to take sanctions against the London branches of any foreign-based banks that banking and Euromarkets

And in the case of third countries, where the SEC has countries, where the SEC has made important advances, the DTI has failed to exert the pressures at its disposal. The Cayman Islands, in which Mr Collier's dealing company was based, has an information agree-Martin Jacomb, deputy chair-man of the Securities and Inment with the US but not the UK even though it is a British dependency. And many insider deals on the London Stock Exchange are carried out through the Channel Islands and Ise of Man which ought to be equally vulnerable to UK pressure.

who sell their shares when an tha DTI new tougher alysts of insider dealing. Henry smart thing would have been to

Financial Times Monday December 1 1986

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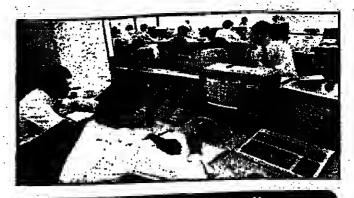
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#### Checks on insider dealing

The DIT's chief handicaps are keeps a close watch on nonsual tion just before n merger SECURFTIES FIRMS: • Monitor compliance by employees ever people than the SEC and movements in price and volume, announcement. • Notice suspicious dealings with customers

Sanctions: (1) Dismiss an employee and file report with

regulators (2) Stop dealing with an entside customer
 (3) Report to stock exchanges

STOCK EXCHANGES: Monitor unusual patterns of irading and price movements before inside information is made public Investigate member firms/employees

SECURITIES AND

Sanctions: (1) Bar an offender from trading on exchange (2) Expei or suspend a member firm or individual (3) Report to statutory regulator



DEPARTMENT OF TRADE AND INDUSTRY Investigation powers:

Sanctions: To prosecute

offence itself has assumed a

higher profile. While in the US, insider deal-

ing is seen as undermining the

In the UK, tha offence has,

up until now, not been con-sidered a serious one, As Sir

UK

Onshore: To force open bank accounts, compel witnesses to answer questions and produce documents (unused to date)

Offshore: (1) To take sanc-tions against the UK branches of non-cooperative foreign banks, investment bouses (unused to date) (2) To gather information through agreement with SEC

EXCHANGE COMMISSION Investigation powers: Onshore: To subpoenz in-dividuals, firms, bank accounts and other docu-ments (subject to challenge)

Offshore: (1) To gather in-farmation through agree-ments with UK, Japan, Switzerland, Cayman Islands and others -(2) To apply diplomatic essare (3) To take sanctions against US branches of non-cooperative foreign banks etc

Sanctions: (1) To refer offenders for prosecution (2) To fine an effender three times his illicit profits in a civil action (3) To impose other administrative sanctions. (4) To provide all avail-able evidence to civil liti-gants suing the effender

against the SEC's "maniacal crusade." The real problem, he said, lies in the framework for

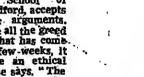
ing is seen as undermining the integrity of capital markets and the belief of small investors that they are on a level play-ing field with the Wall Street institutions, "many. European countries (with no history of value share ownership) have David Myddleton, professor of finance and accounting at the UK'a Cranfield School of Management in Bedford, accepts wide share ownership) have not made insider dealing a criminal offence. Manne's economic argumen "But when you see all the greed and the cheating that has come. ont over the last few weeks, it is difficult to take an ethical stand in favour," he says. " The best solution would be to make

tion.

more commercial secrets come out into the open." Nonetheless; even some of the sterner critics of insider dealers in the UK believe that the sanctions against them should have been left to private sector. vestment Board, the new City regulatory anthority, argued last week, insider dealing is widely viewed as a victimless crima. Normally, the only losers are those market-makers who have failed to keep a tight con-trol of their books. Investors bave been left to private sector bodies such as their employers and the Stock Exchange rather than using the clumsy apparatus

insider is buying—so the argu-ment goes—would normally According to Bob hava sold even without him. One of the leading US an-surveillance departm According to Bob Wilkinson, bead of the Stock Exchange's surveillance department: "The

conducting takeover bids, the source of most inside informa-



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### greenmailers

**Undoing the** 

NOBODY much bas a good business, have failed to bold word for greenmail, the management properly account-American practice whereby a able for the stewardship of the corporate raider drops a take- business. The barons of over bid in exchange for sell- industry and commerce have ing a strategie sharebolding thus been able to pursue size back to the potential victim for its own sake, which in turn company. Even the green-provides e justification for mailers do not care to admit to higher managerial pay and an activity that remains legal; perks. Inefficient congiomera-and those who run the tion is too often the result; threatened company usually decongiomeration, under the an activity that remains legal; perks. Inefficient congiomera-and those who run the tion is too often the result; threatened company usually deconglomeration, under the support the greenmailers' dis- auspices of the corporate admit that they are paying pro-tection money to save their The trouble with the argu-

jobs. ment is thot so many corporate Yet the greenmailers are raiders are singularly reckoned to bave extracted implausible saviours of the conseveral billions from American industry since the babit took root earlier this decade. They are also raising the odds in the are also faising the odds in the poker game by taking the fight closer to the corporate estab-lishment. Sales of shares in the past fortnight by Sir James Goldsmith back to Goodyear Thre and Rubber and by Mr Panald Berelman to the mark Ronald Perelman to the razor and consumer products group Cillette are estimated to bave made profits for their respec-tive consortia of \$90m and \$34m. The profits were, bow-Legalistic habits ever, made at the cost of rais-ing eyebrows in the US Con-gress. With Democrats now in charge of both bouses, green-mail looks as likely a target

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ing eyebrows in the US Con-gress. With Democrats now in charge of both bouses, green-mail looks as likely a target for a draconian legislative on-slaught as insider trading after the Levine and Boesky scandals. Increased debt This concern is understand-able, for one of the chief con-sequences of the practice is to saddle large areas of American Industry with more debt, while amount of equily in issue. As Senator William Proxmire, the Banking Committee, has pointed, while tinvestment in capital equip-ment, research and training. Whether that means that takeovers in general sbould be made more difficult to carry put hill demand, is another matter. For if corporate raiders and the investment to acount. Set the source of the state course of a bid. Company law is less amenable to companies buying in their own shares. And the investmant institutions are less prone to sell their shares to e corporate raider in the early stages of o bid because they are not constrained by any equivalant of America's and Security Act (ERISA). With a very different regu-likely that the US would odopt similar solutions. But if the original problem lies partiy with irresponsible ownership by investors, then there are ponder consideration on Capitol the set of conporate raiders and the is the case for encouraging under consideration on Capitol can respond constructively by Hill demand, is another matter. calling management to account. For if corporate raiders and Thet is the case for encouraging greenmailers have flourisbed the trend whereby institutional of late, it reflects a failure of investors demand changes in ownership quite as much as company byelaws to prevent any flaw in the legal structure, greenmail payments. Unlike In so far as the corporate most victims of protection, raiders have a defence, it lies shareholders do not stand to in the assertion that share-suffer if the money is not paid bolders, the real owners of the over. the real owners of the over.

By any other name Laurie Milbank, the City stockbroking finn, has run into a spot of linguistic bother with the Japanese over its applica-tion for a securities dealing

licence in Tokyo. Japanese banking law says that banks may not deal in securities. Unfortunately, Laurie Milbank's application was translated literally into Japanese and its name came out with its final syllable given as "ginko"—the Japanese for bank. glomerates in question, parti-cularly when they address re-latively well managed com-panies like Goodyear. And when raiding turns to green-

Laurie Milbank explained the Japanese said it might be better if the firm could find another name to evoid conmail, the owners are beavily penalised because they re-ceive less favourable treatment fusion. Chase Manhattan Bank, which owns Laurie Milbank, than the greenmailer and are left with an investment in e more heavily indebted company. says it quite understands the Japanese problem and will be bappy to think up a new name.

#### **Restoring Rome**

In Britain the worst excesses of takeover fever are avoided because the Takeover Panei's Yet another of the sights of Rome goes under cover next spring when restoration work is due to start on the 10 brand of self-regulation-wblch is, ironically, under increasing baroque angels which decorate the Ponte Sant'Angelo.

the Ponte Sant'Angelo. Designed by Bernini, but sculpted by his pupils, the statues stand on one of the oldest bridges over the Tiber which leads to one of the most popular sights of the city, the Castal Sant'Angelo. The statues, like the Romans themselves, are suffering acutely from the ever-ineraasing pollution of the city (which led to some areas being sealed off from private traffie

ing from its pinth in Fiazza del Campldoglio since January, 1981; and Marco Aurelio's column in Piazza Colonna bas been shronded in scaffolding since suffering from the effecta of an earthquake six years ago. **Book deal** 

(which led to some areas being sealed off from private traffie for one day last week). The comparatively rapid rescue operation set up to save the statues has been organised by two young Roman women whose company. Pangloss, specialises in finding private sponsora for public works. They have one restoration job already to their credit — that of the Barcaccia. Bernin's boat-shaped fountain at the foot of the Spanish Steps — completed in a mere three months last summer. Merchant banker, Evelyn de Rothschild, who owns the oldest established booksellers in Britain, Henry Sotheran of Sackville Street, London, bas been extending his literary interests.

completed in a mere three months last summer. That project was financed by the Rome daily, La Repubblica, and this time, Alitalia is putting up the money. Work

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referred to it. The identification of sus-plcious trades bas not been an obstacle. The Stock Exchange's surveillance department, al-though lacking some of the automated computer monitoring devices of the US exchanges, Santa Fe International Corpora-over the seriousness of the surveillance department at though lacking some of the us exchanges, sourveillance department, al-automated computer monitoring devices of the US exchanges, sourveillance department, al-automated computer monitoring the purchasers of shares in the automated computer monitoring devices of the US exchanges, sourveillance department, al-automated computer monitoring devices of the US exchanges, sourveillance department, al-automated computer monitoring devices of the US exchanges, Santa Fe International Corpora-over the seriousness of the sourveillance department, automated computer monitoring devices of the US exchanges, Santa Fe International Corpora-over the seriousness of the sourveillance department, automated computer monitoring devices of the US exchanges, Santa Fe International Corpora-over the seriousness of the source in the source more than 20 per cent in the four weeks before the first announcement that they were the targets of takeover bid.

**Men and Matters** 

ergy benefit" from the two technologies which should put it in a dominant market

position. Both companies have-been working independently to cap-ture more business in the buoyant power boat market, where if boat-handling cannot be done by pushing a button the owner sometimes doesn't feel inclined to do it at ali. But the sailing yacht market is moving rapidly in the same direction, much to Jay's satis-faction. He is scoring a notable success with hydraulically driven winches to aave yachts-mens' aching muscles. position.

With push-button control of anchor, sails, winches and steer-

ing, all that will be needed is a steady hand to pour tha gins.

### The opportunity to link with the flourishing print-selling busines; which Ben Weinreb-who knows more than most about prints and old maps-bas been opersting near the British Museum in Store Street was "too good to be missed." At law

Ken Graham, the TUC's dopnty general secretary, and its prin-cipal legal and industrial rela-tions expert, is to be awarded What has taken place, said a spokesman for both companies, is a marriage rather than e merger. an bonorary doctorate next month, along with Sir Denis Rooke, British Gas chairman, and Geoffrey Chandler, former director general of the National Economic Development Office. Ex-GEC executive Martin Jay, who took the helm at Lewmar, the British yacht equipment maker, when It was floated on the Unlisted Securities Market last year, has a strategy to make Economic Development Office. The awards—among only eight doctorates given annually by the Council for National Academie Awards—will be pre-sented at the Wedgwood fac-tory near Stoke-on-Trent. Graham's doctorate of law will be of comfort to bim. He spant two days last week in the High Court, listening to a TUC-affiliated union, the white-collar his firm the leader of what ba calls the "push button sailing

He has just spent \$4.6m to buy Brookes and Getchouse, another company with a world reputation in boating circles. affiliated union, the white-collar ASTMS, attempt to overturn a TUC disputes committee award about union representation in the Sun Alliance insurance B and G of Lymington, Hampshire, specialises in marine electronics, indeed pio-neered much of the gear, and will neatly complement Lewmar which is the world's leading supplier of yacht winches. group.

#### Strong support

The companies began working together a few months ago to marry Lewmar's expertise in hydranlics to B and G's elec-tronics skills in order to pro-duce o new autopliot for the bigger yachts. The onlocma has been a full merger From the house magazine of a New York company: "When Miss Allmack joined us, she knew nothing about the corset and girdle trade but she lost no time in learning the market-ing side of the business, and in less than four years she had become o mainstay of the organisation." Lewmar turns over more than

**Observer** 



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STATE OF

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heen a fuli merger. He bas bought Weinreb Lewmar turns over more turn f15m a year compared with B and G's 54.5m, Jay says be la confident that the combined company will enjoy a "syn-Architectural Books—the big-gest dealer in such books in the world. Sotheran, whose chairman is



on the angels should be com-

pleted in 18 months - an ambitious timetable when one

remembers that the statue of Marco Aurelio has been miss-ing from its plinth in Plazza

panies seem in a sudden hurry to buy into America. UROPE'S chemical com-Hoechst of West Germany is bidding \$2.8bn for Celanese, one of America'a 10 biggest chemical companies. Rhone-Boulenc of France is paying \$570m for the agrochemicals business of Union Carbide. Alzo of Holland is "actively seeking" US acquisitions.

This deluge of cash is, in one aense, surprising. The attrac-tions of the US are plain enough. for e large number of important chemicals, America is the world's biggest market, and also the fastest growing. But then, it always was. Why the sudden interest? The latest flurry is part of a

process which bas been going on for a couple of years. In November 1984, ICI laid out \$750m on Beatrice Chemicals, and has since paid \$580m for the US paint maker Glidden. BASF of West Germany bas meanwhile spent \$1bn on the paint maker Inmont and \$135m on the composites business of Celanese, and has bought the fibres business of American

All this has not been mere fashion, though there may be a touch of that. To begin with the fortunes of tha US and European chemical industries bave lately diverged. Mr Jean-Plarte Tirouflet, financial con-troller of Rhone-Poulenc, says: "The European companies have aarned a lot of money since 1983. Bnt the US companies had a rough time last year."

There is at least one simple reason for that. At the begin-ning of the 1980s, with the dollar at the bottom of its cycle—as low as \$2.44 against sterling and \$0.58 against the D-mark-European companies could not sell against the Americana in third countries, and had to rationalise drastically and painfully as a result. The cycle then reversed, and by the beginning of last year the dollar had doubled against the D-mark and almost reached parity with sterling, US pro-ducers, locked out in their turn, had to go through their own painful rationalisation while the Europeans reaped

the benefits. And now, with the Europeans cash-rich and the Americans drained by rationalisation and restructuring, the cycle has turned once more. Against the D-mark in particular, the dollar has nearly halved again, and to European eyes American assets

But It is not just a matter of currency opportunism; after all, ICI bought Beatrice when the dollar was at its peak. Since the onset of recession in 1979, companies bave been thoroughly unnerved by the effect of huge and firstional currency swings on their day-to-day business.

"The chief uncertainty is the EMS versus the dollar," says. Mr. Throutlet. "Even if you

Stainless steel

From the Director, Catering Equipment Manu-Jacturers Association of

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European chemical companies

### An inescapable quest for critical mass

#### By Tony Jackson, Chemicals Correspondent

Behind all the short-term factors, though, lies a relentless trend towards internationalism

in the chemicals markets of the

world. In 1980, says Mr Tironflet, around 50 per cent of Rhone-Poulenc's sales were

in France. The figure is now 30 per cent. For ICI and the

German companies the trend

"As markets get more and more worldwide," Mr Throufiet says, "It's very important to control that whole market —

either in very basic chemicals,

where it's becoming a question of only a few companies staylog

in business, or in speciality chemicals, where you aim to get

and while anti-trust legislation tors to Sikorsky helicopters. is less strict than it was and Union Carbide's sale of its perhaps will be." Or as Mr agro-chemical interests is at don't want access to the US market, some products are dollar-denominated, and in all Sutherland puts it: "There's no least party prompted by the question this administration bas need to recoup the costs of fightmarkets the competitive posi-tion of the European industry is been very laissez-faire about ing off a bostile bld from GAF. at the dollar's mercy. To protect yourself, you must have a market consolidation by suppresence on both sides of the Atlantic." pliers.

And, of conrse, there has been no shortage of things to The point is appreciated in buy. The current reshuffle of the US. Donald Sutherland, corporate America's assets has managing director of investor affairs with Du Pont, says: "The largely had the effect of transferring previous attempts at diversification to owners who major European companies realise they can't control their currency baskets any more then understand the businesses better-whether from home or we can. That means yon have abroad. Companies which have dragged their feet have been belped along by corporate ralders and greenmallers. to have the asset base of tha whole enterprise located in various ..... currencies. We're looking aggressively at overseas So, for instance, ICI bought

acquisitions ourselves." So, for instance, ICI bought Protectionism and competi-Glidden from Lord Hanson, tion policy is another explicit who had taken over its pre-- if muted - reason given by the Europeans for looking at the US just now. One British executive says: "There may be a window in time while the Reagan administration is there,

EUROPEAN ACQUISITIONS IN US Company Date . Price Buyer ICT \$750m Beatrice Chemical November 1984 Celmese composites division Early 1985 \$135m BASF May 1985 BASE Sibn Inment BASF American Kaka June 1985 N/A. \$580m August 1986 November 1986 ICI Glidden \$2.85hn Celanese Hoechs UCC agrochemicale November 1986 \$575m Rhone-Poulenc

Letters to the Editor

and all the

\* Bid still in progress



> cent insured or reinsured who was quite anaware that he was doing buildeds with an un-authorised insurer or reinsurer, is the last person who should be penalised? The situation is made more perflous by reason of the fact that, as your correspondent says, there are provisions in the 1974 Act to

ment was terminated. "In the early 1970s we made our first significant thrust with the purchase of Atlas Chemical. In 1973, when I went out there, we had a \$200m business. Sales are now over \$3bn, built up roughly 50-50 between acquisi-tion and growth. But the US is 40 per cent of the world market, and we still only have 20 per cent of our sales there." In the case of the three big German chemical companies, the

reason for a late start was simpler again. When IG Farhen, the colossal chemical concern in which the three were joined. was broken up by the Allies after the war, all the combine's assets in the US were the commodity business of artificial fibres, and ICI's purchase sequestreted.

of Glidden makes it the

advance of Europe.

follow it."

largest maker of paint. And on the other hand, ICI's acquisition

of Beatrice, and BASF's of parts of Celanese, place both companies squarely in one of

the vogue areas for the 21st century, advanced composites-in which, as in most such areas,

the US market is well in

And, adds Ronnie Hampel, ICI board director in charge

of the Americas, "the techno-logy of the industry is becom-

ing worldwide, and you have to

Technology involves another

aspect, known in the jargon as "critical mass." One British executive says "there is a view among some Europeans that you need a big enough base in the US to be taken seriously by the investment community

German executive seys:

ments have held good for a long time. Why is it only now that they are being acted on?

One reason bas to do with history. ICI kept well clear of the US market in the years be-fore the Second World War,

for the simple reason that it

had a non-competition pact with

Du Pont. The agreements were

eventually busted by the US Department of Justice after raids on ICI's files in London.

Mr Hampel tells it more diplomatically, "Until 1954, ICI and Du Pont had a

technical exchange agreement whereby Du Pont exploited ICI's inventions in the US. Then

A BASF executive says: We started again in the US in 1952-53. At the same time we had to rebuild our factories at Ludwigsbaten, which had been destroyed, and build up other assets in Europe. The huge expansion, for all three German companies, came in the late 1960s and early 1970s. what they see on our screen, but do not expect to enjoy all of lt."

"Yon cannot jump into a market like this without pre-It has been attacked by paration. You need maybe a decade before you can make an pnritan lobby for some of its films and by the intolerant left acquisition. It's the same with for a pro-private enterprise series. These two facts alone Japan — we've always said clearly that we're too small in Japan, but only now are we series. These two facts alone should suggest to tha non-British student of broadcasting starting to feel sufficiently established to set up our first that there is a good deal going for Channel Four. 100 per cent owned factory The ownership and financing arrangements, however, are something that only the British (or the Byzantines) could have there.

But if the Europeans now feel ready to spread their wings, the US companies do not. invented. The channel is very independently managed; but it is wholly owned by the indepen-British oil company executive says: "The Americans have withdrawn into Fortress America. We see less activity from them than in the 1950s and 1960s, when the tide was dent Broadcasting Authority, which is itself a regulatory and not a broadcasting body. in the other direction. They pobably feel their own market levy on independent Television companies, which amounts in effect to 13.6 per cent of their will grow at least as fast as Europe's and there is elso a elso a net advertising revenue in the feeling among them that if you want to compete on a world previous year. In return the TV companies place advertising scale you need to put your own bouse in order first."

fixed slots on the channel, Meanwhile, there are no signs that the European buying spree is over. In some cases the and collect the proceeds. The share of advertising revenue attributable to Channel individual strategy may be open to argument—Hoechst plunging Four has been creeping up and amounted in 1985-86 to 10.9 per back into commodity markets with Celanese, Rhone-Poplenc cent. Thus the channel is within sight of being self-supporting. The Peacock Committee on grapping with the dreadful problems of US agriculture. And then there is tha cost. "To us," says one British executive, "some of the prices broadcasting finance recom-mended that Channel Four should be "given the option" of ceasing to be a subsidiary of the IBA and of selling its own advertising. The committee wanted to see the continuation being paid are simply amazing." Mr Hampel strikes a balanced note. "The logic of European acquisition in the US is totally comprehensible in the macro sense. The US is the biggest of scheduling complementary to what ITV is offering; and for this reason it did not want to force independence on an unsingle capitalist market, and the one where it's easiest to main-tain free trade. It's easier to do business than in Europe. willing Channel Four. On the insistence of Edmund Dell, the channel's chairman, a where there are all the national report was commissioned from ICI's inventions in the US. Then and political problems. But the world got smaller, and there is e danger of being anti-competition legislation sedaced by size. You have to be more stringent, so the strange- selective." Professor Alan Budd on the financial implications of the proposal. Publication of the Budd Report has been delayed

Lombard

### **Independence** for **Channel Four**

#### By Samuel Brittan

THE TELEVISION channel I until December 3 by rearguard watch most is BBC 2, the Cor- action from opponents of indeporation's supposedly cultural pendence.

channel. But the one which I But it is clear from several enjoy most when I do watch it is Channel Four, the alternative press leaks that Budd reported that the buoyancy of advertising channel of the private sector revenue was quite sufficient for Channel Four to be self-support-ing, while maintaining its diswhich, in the words of its chief executive, Jeremy Isaacs, " seeks to satisfy a discriminating few, tinctive output and not engaging an endless succession, that is, of changing groups of selective viewers who enjoy something of in a popular ratings battle. On the other hand, any loss

Channel Four is financed by a

to ITV companies would be far too small for it to be worth their while to "retaliate." The accountants, Coopers and Lybrand, also presented to Channel Fonr an alternative picture on pessimistic assump-tions. But the root of the opposition to independence lies

isewhere. The chairman and influential executives of Channel Four are in favour to varying degrees, as are one or two of the indepen-dent members. But the IBA likes its imperialist position and the ITV companies enjoy the television duopoly of themselves and the BBC. Several of the Channel Four board are either top executives of ITV companie or have past or present IBA con

The case for independence is The case for independence is partly a matter of freeing the channel from ITV bureaucracy. It is also anomalous that the IBA should be both the regula-tor and the owner of the channel. At a practical level there are many advantages in direct dealing with the adver-tisers who are interested in exploring the potentialities of specialist and ences. Looking ahead Edmund Deli has cast doubt on whether Channel Four's present painless method of finance could be relied upon

In the longer run. The only major way in which ITV companies could retaliate would be by challenging the principle of complementary scheduling, for instance by putting on programmes late at night designed to compete with Channel Four's more popular output. Any such behaviour would threaten the understandings on which ITV's present highly privileged position is based, and which Peacock re-Instantly accepted for the short to medium term until a genuine broadcasting market is estab-lished. There is a limit to what

should

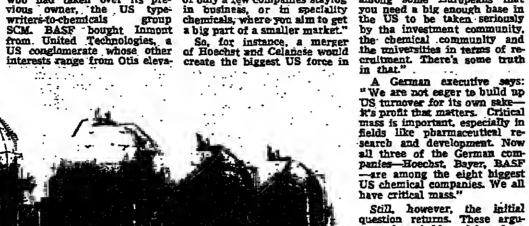
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vested interests allowed to block,



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WILL turnover of some £200m annusteel sbeet, a raw material upon which they depend. Their industry has to compete worldwide often quot-ing long term prices. They ing long term prices. They must also be able to counter effectively the massive import penetration in this country while meeting widespread non-tariff barriers to trade in Europe.

Sir .-- The members of this

The association is very deeply concerned by the present practices end intentions of the Europeen steel cartel-Eurofer. Supplies of stainless steel sheet are being withheld from the market by the imposition by that cartel of quotas to create an artificial shortaga with the declared intention of achieving a 20 per cent increase in price in 1987.

The ample supplies of stainless steel sheet from overseas sources are forbidden entry to the European market. It is thus the case that in

this importent commodity the European consumer is penalised and damaged in a way which is surely contrary to the spirit and letter of EEC trade rules and which would, of course, be quite illegal in a normal trading situation. The longer term effect of these actions to move the problems of the steel indus try on to their ultimate custo-mers can only result in severe damage. loss of jobs, and a con-traction of the overall market for the steel industry's products. Members hope to sea early action both by the European Commission and the British Government to stop the abort-

sighted policies of Eurofer. (Dr) J. E. Munden. 14, Pall Mall, SWI.

#### Training and performance

From Mr. E. Wood Sir, - It simply is not true, as Professor Mangbam claims (November 24), that the link between performance and management training has never been tested. Way back in the been tested, way back in the early 1970s Dr Patrick Prynne, my then colleague at Sheffield City Polytechnic, carried out a survey in which several bundred companies were asked questions about the extent and type of training. He then obtained the annual accounts of these firms.

Careful analysis showed that there was a correlation between performence (in terms of probitability) and the amount of training. The correlation bow-ever was inverse the com-panies doing little or no train. British industry that credit is and a mount of the transitional provisions of the Floor, and the formation of the transitional provisions of the Floor, and the floor the transitional provisions of the floor, and the floor the transitional provisions of the floor the floor transitional provisions of the floor transitional provisions of the floor transitional provisions of the floor transitional provision of the floor transitional provisions of the floor transitional provisions of the floor transitional provisions of the floor transitional provision of the floor transitiona ing had higher returns on management is only a problem

capital than those doing more for the credit controller has to training. The only face-saving conclu-

be reversed if the paralysing effect of poor cash flow is to be stopped. With £25bn " overdue " at any one time, UK manufactursion we could reach was that those who were satisfied with their performance felt that it ing and service industries are carrying a burden which many of their international comwas unnecessary to train while those who saw the need for improvement feit that training petitors do not carry. might help.

British industry will have to put its own house in order to Unfortunately, funds were put its own house in order to reduce the UK average of 58 credit days to those enjoyed by, for example, its American and West German competitors. In tha US the figure is 44 and in Germany some 69 per cent of all bills are paid within the credit period allowed. not available for a follow-up study several years later to see whether tha performance of those who were training had improved and vice versa. I suspect that many of the firms are no longer in business, but that those who have survived are the more profitable ones who were doing little or no John Mirams. 243 Lower Mortlake Road. Richmond, Surrey.

fraining. Finding the connection, if any, between training and per-formance is not easy. Let's just accept that management train-Penalising the ing is a business that seeks to satisfy its customers. innocent

From Mr D Evers Sir.—A. H. Hermann's article "Punishing the innocent" (November 20) will be read with interest in the London insurance market which, de-pressed at the decision in the Bedford case, was in better heart following Mr. Justice Leggatt's decision in the Stewart case. In the Bedford case it was decided that the contracts of an insurer trading without

Poor cash flow

27, Townscliffe Lane, Marple Bridge, Stockport, Cheshire.

training.

E. G. Wood.

cycle.

From the Marketing Director, Pert International Sir,—May I comment on the points raised by Mr Martin (November 24) regarding the article, "Small businesses call

underwriting agent I can testify as to the costly effect for at least one group of our clients of the Bedford decision. For our for action on slow payers." Too little emphasis is given to tha negotiation of credit terms when a sale is made. But, clients, the direct effect was that their syndicate was unable this is only one factor. Far too little consideration is given to to recover under otherwise valid the importance of adequate and effective systems and pro-cedures throughout the overall reinsurance contracts: the reinsured, who could not collect, was unaware that his reinsurer order to cash" administrative was unauthorised.

For instance, situations exist where np to 40 per cent of sales As Dr Hermann suggests, the Bedford decision (now con-firmed in Phoenix) bas had involces contained mistakes; 95 knock-on effects and has meant that otherwise rightful claims per cent of companies still use statements which present the information in the wrong way; and, over 70 per cent of comcould not be recovered from other unauthorised reinsurers, panies either have no published or rather, in a number of cases, terms of payment and condi-tions of sale at all or have terms which are inappropriate from their liquidators. Now that in the Phoenix case the Court of Appeal has confirmed (if only obiter) the Bedford decision this will, to my certain for their business. Too many companies rely solely on the credit control func-tion "to get the money in," but knowledge, affect other claims being negotiated. It is even effective sales force procedures,

apparent from the Phoenix case itself that reinsurers used as a order-entry, production and despatch department efficiency, defence against claims the fact adequate information systems that they might be "un-enthorised," only to find that and inter-departmental CO-

the 1974 Act. Surely the inno- 16, Finsbury Circus, EC2.

by reclassifying the categories of insurance in a way that can deprive an insurer of his authorisation. David Evers.

80 Bush Lone, EC4,

Investment

trusts

From Mr E. Chappell Sin,-Lex (November 27) is unduly harsh in suggesting that it is only the prospect of cor-porate activity which has brought market strength to the investment trust sector: (at the azme date, the investment trust sector of the FT Actuaries Indices is the only sector to stand at its all-time high).

stand at its all-time high). There is increasing realisa-tion that the market is more fully appreciative of what the sector is designed to achieve-providing a spread of risk, both

in general and specialist funds, in general and spectrals tunds, high quality management, and low costs, to a wide range of investors both institutional and private. Laing and Cruick-shank's survey demonstrated, both on net asset and share rates from the that the value growth, just how far the sector had ont-performed the London and New York equity indices: other measures of past long-term performance show that for a number of years, investment trusts have outan insurer trading without authorisation under the Insur-ance Acts were vold. As an performed unit trusts (which are so widely promoted, at the investor's ultimate expense) both on capital values and income growth, and other forms of savings media, such as building societies.

There are at least two other factors in the sector's fevour. Under new financial services legislation, there will be in creasing pressure on interme diaries to recommend the investment which is best for the investor, not that which pays the intermediary the highest commission. Investment trusts have fully appreci ated the need to trumpet their strengths and earn the support of their investors. New publi city programmes, at both individual and generic level, will emphasise their strengths. The sector has been excelling for over a century; with a wider interest in private shareholding investment trusts will continue to flourish. In all logic, their lower management costs should cause them to stand at a premium over net asset value.

de to successiu advertising. Pick your favourite business-to-business medium.

### Now answer these questions-and stand by for amazement

YES NO Can you test it economically and Is your favourite business-toget the results quickly? business advertising medium highly cost-effective in terms of response and conversion to sales? Can you easily use it to compare the effectiveness of alternative messages? Does it avoid the wastage of other media because it's seen Is it unrestrained by the dictates only by businessmen who are of size-of-snace length-of-time likely to be interested in your product or service? Does it allow you to contact potential customers just as and when you choose?

Does it allow you to tell your complete sales story, with maximum creativity?

Does it reach your target at a receptive moment, with no other advertising alongside?

Can it be targeted to any size of business market-from nationwide down to one trading estate?

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## **FINANCIAL TIMES**

Monday December 1 1986

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#### William Hall on Wall Street

### **Boom or** bust for prices

WITH the Dow Jones industrial average ending last week less than six points short of a record high, are US share prices too high? It is a question that is worrying many in-vestment managers as they return from tha Thanksgiving holiday

Tha latest economic news out of Washington - particularly the sharp drop in orders for October durable goods - is far from encouraging, and the political news is even more disconcerting. The Iranian arms controversy has thrown the US administration into disarray and raised serious questions about the continued effectiveness of President Ronald Reagan during his fi-nal two years, which in turn could have important implications for Wall Street in the new year.

However, if Wall Street's bulls are beginning to lose their nerve about the long-term direction of US share prices, they could do a lot worse than spend a few minutes lis-tening to Mr John Templeton, one of the grand old men of investment management, who left his Lyford Cay home in the Bahamas last week to attend the annual meetings in New York of his \$6bn Templeton mutual funds.

Mr Templeton, a congenial septu-agenarian and former Rhodes scholar, has been in the investment management game for close to 50 years, and whether one agrees or disagrees with him, his long-term view of where the US stock market has come from and where it is heading always makes good listen-

He stresses that US share prices have risen only 32 per cent over the past 50 years, stated in dollars of constant purchasing power, and are 45 per cent lower than the peak prices reached 20 years ago. The rise in prices has been small when compared with tha rise in the annual gross national product of the US. Assuming a constant relationship between the two, Mr Templeton calculates that US share prices have effectively fallen by 73 per cent over the past 50 years and are only up a third from the 1982 low point.

The current ratio of US share prices to next year's estimated earnings of around 14 times is years" and based on several other long-term comparisons, such as the relationship between US and Japanese share prices, US shares are close to their lowest levels for a long time.

"IT IS all very exotic - rather n met ropolitan issue," n British Cabinet minister said after last week's further instalment of the secrets case with its naming of famous names, regular humiliation of Sir Robert Armstrong, the UK's Cabinet Secretary, in an Australian court and angry confrontations in the House

of Č mmons The British Government is bettling to prevent publication in Aus-tralia of a book by a retired officer of MI5, Britain's spy-catching ser-vice, in which he claims that n forner director was a Russian agent. The case resumes today when the

British Government faces a further week of pressure and political embarrassment, both in the Australian courts and in the House of Com-

Conservative Party leaders are mounting a concerted attempt to shift attention and criticism on to and are replaced by more durable the role of Mr Neil Kinnock, the La- domestic issues. bour leader who telephoned the de-While they last, however, West-

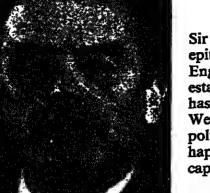
fence lawyer last week in a widely minster talks of little else. And of condemned move. Immediate attention will focus on per classes - and hence the press -

a ruling by Mr Justice Philip Powell can satisfy their fascination with of the New South Wales Supreme spice. Court on whether highly secret and sensitive British Government docu-But do most voters care? MPs report puzzlement, not anger, from their constituents - and hardly any ments, which he has been reading during the weekend, should be made available to the defence. letters on the topic: Yet the MI5 affair does raise seri-

The British Government has strongly resisted production of the documents and will, if necessary, ian courts is that former MI5 offiappeal against the judge's decision. For all its bizarreness the affair

For all its bizarreness the affair not be allowed to disclose informa-has become, however briefly, the tion without authorisation. There dominant topic of discussion among should be a life-long vow of confid-UK politicians and commentators - entiality based on adherence to the to the virtual exclusion of anything all-embracing Official Secrets Act questions in the House of Commons and spilling over into lengthy points of order and dozens of written ques-tions and motions. The problem is that the Govern-

This is a familiar pattern. For the ment may have been inconsistent in its application. In particular, Mr anoth or two - the British Wright was flown to Britain, with time - sometimes weeks, occasionally a month or two - the British Wright was flown to Britain, with Parliament and those who report it the help of Lord Rothschild, a pow-become preoccupied, even ob-sessed, with an issue which appears ure and himself a former MI5 offiperipheral to the main concern of cer, to assist with a book by journal-Britain - Mr Mark Thatcher's in- ist Mr Chapman Pincher - Their volvement in an Oman building Trade is Treachery - published in contract, opposition to the sinking 1981. This book alleged that Sir of the English establishment, has of the Argentine cruiser Belgrano Roger Hollis, a former head of MI5, appeared to Westminster politicians during the Falklands war and, even had been a Soviet agent. to some extent, the Westland heli-Much of the Australian case has



ous issues. The point of the UK Government's case in the Austral-

cers, like Mr Peter Wright, should

Peter Riddell reports on the Australian court case

Spy trial obsession rules London

Sir Robert, the epitome of the English establishment, has appeared to Westminster hapless cricket captain of old.

in the publication of Mr Pincher's book and therefore on whether it has taken an inconsistent attitude. The UK Government case is that there is a distinction between books written by former MI5 officers and those by journalists, even with the help of the former; and that when the Prime Minister was faced with a decision shortly before publication she was told it was too late to

stop the disclosures. The critics of the Government's case assert that the intelligence authorities knew about Mr Pincher's book and Mr Wright's close involve-ment well before publication. On this view, the authorities, at the very least, made a deliberate decision to allow the book to go ahead, and may have played a more positive role.

The case has also thrown up apparent inconsistencies in the Government's method of taking decisions. Sir Robert Armstrong has been forced to change submissions, notably over whether Sir Michael Havers, the Attorney-General and senior law officer was involved.

That retraction only followed week-long angry rumbings by Sir Michael leading up to a meeting with Mrs Thatcher.

Indeed, Sir Robert, the epitome like a hapless cricket captain of old, probably wearing a Harlequin's cap and being barracked by Australian copter affair. But by their very na-turned on whether or not there was and being barracked by Anstralia ture these affairs run out of steam British Government acquiescence rowdies from the Hill at Sydney.

More substantially, n number of senior civil servants, as well as poli-ticians, are worried about whether Sir Robert should be put in the posi-tion of being the public spokesman for Mrs Thatcher, as he also was in the Westland affair. They fear that, like Lord Armstrong (now de-ceased) under Mr Edward Heath, Sir Robert has become de facto bead of a Prime Minister's department rather than Cabinet co-ordinator and impartial head of the civil service. There is strong Whitehall pressure for the two roles to be split again when Sir Robert retires after the next election. The other constitutional question

is over the control of the intelliis over the control of the intell-gence services. The SDP-Liberal Al-liance will use a Commons debate on Wednesday to press the case for oversight by n Commons committee

of privy councillors. Labour will support this call and a few Tory MPs are sympathetic but it will be resisted by the Government. In theory, although not in practice, the current departmental ly-related select committees could look at the two intelligence services and one committee did hold an inguiry into the special branch. Finally, a loud, but not very sub-

stantial sub-plot has developed over the contacts between the office of Mr Neil Kinnock, the Labour leader, and Mr Malcolm Turnbull, the lawyer for Mr Wright. According to both Mr Kinnock and Mr Turnbull eight telephone conversations have been concerned with what had been happening overnight in court and contained no confidential disclo-

Tory MPs have furiously at-tacked Mr Kinnock for collusion and for undermining Britain's intelligence services. But, on present ev-idence, Mr Kinnock has been, at the most, unwise, or naive, in personally talking to n lawyer acting against the British Government in a foreign

Labour MPs suspect that the Conservative outrage is a device to shift attention away from the substances of the Australian case.

In any event, for all these sideshows, the Government faces the problem that unless it drops the case - and thereby compror the principle of confidentiality - it faces further embarrassment in Australia and rows at Westminster. The show is not over yet.

### THE LEX COLUMN Never the twain shall meet

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It is a foolish man who describes any event in the financial markets as inevitable. But there were an awful lot of such foolish men who were proved right in September when the Japanese stock market began a slide which by mid October had wiped out about 16 per cent of its capitalisation. At its peak the Nik-kei was on an earnings multiple of well over 50 - unprecedented even for n market which has never been particularly tied to the sort of meaurements of value which obsess fund managers in the West. The occidental view of tha matter

was sufficiently clear-cut to trigger a net sell-off by foreigners from the Japanese stock market - so far this year - of over Y3 trillion (million million). The west has been a net seller of the Tokyo market for some years, but this was an unloading of over four times the size of the previous year's disinvestment. Such a movement of funds is far more than can be written off as an attempt to realign n Japanese weighting which had become bloated as much through currency as share price np-

#### Gullible

As the index dipped below 16,000 the foreigners continued to sell and patted themselves on the back for their foresight. Yet it is beginning their toresignt. Yet it is beginning to look as though the supposedly gullible natives are having the last laugh: on Friday the market capped a steady recovery by breaking through the 18,000 point barrier. The buzz words that had driven the market to its September peak

was "weight of money." The normal Japanese propensity to save over 20 er cent of personal earnings, together with a massive windfall for the corporate sector as the oil price halved made n potent combination. If weight of money is something which can push stocks up at a blis-tering pace, the same weight should in theory he able to push the same

stocks down viciously. Yet the chief characteristic of the correction was that it took place on very small vol-umes - about a 10th of the peak of 2bn shares & day seen in August and September. It appears therefore that Japanese investors were simply mopping up the worst that the West could throw at them - and Row grows over Iran arms deal World trade

are now hungry for more. If any proof of this were nee ily solved by the creation of such Japanese walls.

Many of the Tokkin are acting solely for a single company, not to secure the pensions of the employees, but to generate profits for the company itself. When the strength of the yen strangles export earnings and deters new capital invest-ment, companies have been putting their very considerable cash resources into stock market dabbling. Realised capital gains can be

treated as trading profits, which is a great incentive for the manufacturing companies whose earnings from normal trading are expected to fall this year by almost 50 per cent. A number of such companies are expected to earn much more from stock market speculation than

announced the company itself revealed that its pre-tax profits for the six months to September were less than 1 per cent up on the com-parable period.

Those western financial institutions which complained bitterly at being excluded from the NTT offer-ing - after Japanese investors had the entire market is at a substantial ing - after Japanese investors had the entire market is at a substantial been allowed in on the British discount to asset value, with compa-Telecom gravy train - must now be nies valuing property and other as-relieved. After all, it would have sets in the book at pre-war prices. caused an unforgivable loss of face The paradox is that precisely those if foreign investors had turned companies with a severe plant overdown any stock offered. Yet even the deadweight of NTT stock dna to hit the market in January is being turned into a bull point by the Japa-nese salesmen, who argue that the of space. Government will pressure the big

four securities houses into driving the market up so that NIT stock will not go to n (richly deserved) discount. The western uncase about the Japanese market is as much to do with the nature of the trading as a substantial discount to assets is

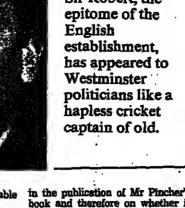
with the hatre of the training as a substantial discuti to assets is the prices that happen to be appropriate. reached. The frenzy of August was . Yet the deregulation of the sav-characterised by the Tokkin funds ings industry in a country in which turning over vast quantities of stock only 1.4 per cent of personal sav-in the blue chips, in true foreign ex-ings are in equities is a wonderful change dealer fashion, buying and prospect for the equity salesmen. If allies within a country in the langeages Generation to a store the sav-

some of these excesses by bringing posit savings, then the weight of

Cynical Yet if cynicism about earnings were to crater Tokyo, it would have done so long ago. Most of the marcompanies with a severe plant overcapacity are deemed attractive because of their potential for redevelopment in islands chronically short

Such arguments might sway the western investor if the Japanese stock market had the ability to buy and sell whole companies in the style of London and New York, Unfortunately, the cultural impossibili-ty of hostile bids in the Japanese business community suggests that

selling within a day. The authori- the Japanese Government does reties have now acted to stamp out move the tax-free status of time de-



In common with many investors, Mr Templeton is amazed by the valuation of the Japanese stock mar-ket and notes that during the great American bull market which ended in 1929, US share prices never rose above 23 times earnings while the Tokyo stock market index was rein 1988, when Mr Reagan's term ex-pires, is planning to make n statecently selling at 48 times earnings. Nomura Securities, the biggest Japanese brokerage firm, has a stock market capitalisation which is 15 times that of Merrill Lynch, its biggest US rival.

Mr Templeton doubts whether such n divergence in stock market valuations can be justified over the long term. He is apprehensive about the impact on the rest of the world's stock markets if Tokyo prices were to collapse.

On the other hand, he is clearly intrigued by the possibility that US share valuations might rise sharply at some future date for some of the same reasons that have sent Japanese shares prices into the stratosphere.

The outcome is a particular disappointment to the ruling Conserva-tive Party which had been hoping "It is possible that in the next bull market, US share prices might rise for additional support from overfar above what has been considered normal in the past in relation to earnings," says Mr Templeton who seas voters. A direct mail shot was sent to more than 100,000 expatriargues that the Japanese stock market is being fuelled by a "short-age of shares and n surplus of cash." ates and a new body, Conservatives Abroad, was set-up specifically to cater for their needs. A variety of reasons have been put forward, with hindsight, by the

Over the last three years he estidisappeared because of takeovers, leveraged buy-outs and share buycompared for example, with the 20 per cent voter registration by US

"A shrinkage of this magnitude has never before occurred in any nation." He is also impressed by the sheer weight of cash available everything muturing within 18 months - which exceeds the total market value of all US shares, and

months - which exceeds the total market value of all US shares, and given that US pension fund assets are expected to triple over the next decade, this factor is likely to be-come even more important. Is there any danger that the US financial markets are heading for another 1929 great crash? Mr Templeton says that there are some similarities between now and then, but the differences are much greater. It is possible that the Dow Jones industrial average could fall from its current level of near 2,000 to below 1,000, but this should not be mistaken for another great crash, just the inevitable bear mar-ket which will hit Wall Street soon-er or later.

**Continued** from Page 1

Washington has grown since Mr Reagan, 75, left the capital last week to take his four-day break horseriding in the Californian mountains. In his regular weekly ders, Mr Brent Scowcroft, a former National Security Adviser in the Ford Administration, and Sen John Tower have been appointed to a three-strong "blue ribbon" panel to investigate the role of the National nationwide radio address on Satur-Security Council in the wake of last day, he urged Americans not to become preoccupied with the "Iran is-sue" but to concentrate instead on week's disclosures. Mr Reagan is to meet the panel today. Mr George Bush, the US Vice the federal budget deficit and President and front runner for the

Republican presidential candidacy Mr Reagan's presidency, has been ment this week, according to aides. mercilessly pursuing every aspect several years ago.

Mr Bush has largely been politi-cally invisible since the scandal broke, and his speech could deter-mine whether his chances of get-ting the presidential nomination of the scandal The New York Times reported ing of a big Saudi Arabian role, not only in secret Iranian purchases of arms but also in the supply of mili-tary equipment to the Nicaraguan have been irrevocably damaged by

Expatriates spurn UK voting role

with the new complicated proce-

dures, and second the regulations only came into force on July 11, and

even with considerable local pub-licity efforts, the run-up to registra-

tion coincided with the main holi-

Moreover, there have been sug-

gestions that some British resi-

dents abroad may have been reluc-tant to register and thus risk at-tracting the notice of the Inland

A number of British citizens live

ing abroad have protested, notably in letters to the Financial Times,

about the restrictive nature of the

""你说我们们们是你们的这个话的?"

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day period.

Revenue.

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The atmosphere of crisis in

the affair.

**Continued from Page 1** 

more people registered but points out that, for the first time, those who wish to vote can now do so.

parties for the low level of response,

citizens living in the UK. First,

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World Weather

The report said that Lt Col North's associates - including re-tired air force Major General Richard Secord and Mr Albert Hakim, a former Iranian businessman were in direct contact with the Saudis. The report also said bank records showed that an Iranian arms dealer, Mr Manucher Gharbonifar, had paid \$5m to the Saudi middlespending cuts. But the US press, scenting blood for the first time in the six years of Iy in the US sale of the Awacs early warning system to Saudi Arabia,

In a separate development, Jus-tice Department officials were quotvesterday that evidence was emerg- ed in the Washington Post as expressing reservations about Mr Meese leading the government inquiry into the scandal, partly be-cause of his close contacts with the **President** 

come overseas electors.

This time limit reflected a com-

ty'e desire for tight controls and the

Tories' preference for n less re-strictive approach. Labour's agree-

### forecast to grow faster

By William Dullforce in Geneva

WORLD TRADE will grow slightly faster in volume this year than previously forecast owing to a sharp re-covery in fuel exports. West Germany is set to replace the US as the world's biggest exporter in dollar terms, and for the first time developing countries will earn more from manufactured exports than from

These 1986 predictions, based by the secretariat of the General Agreement on Tariffs and Trade (Gatt) on figures for the first 10 months, are announced simultaneously with the publication today of Gatt's report on International Trade. In n new format, it analyses international trade and policy issue in 1985 and the first half of 1986. A flattening out in the impetuous growth of electronic exports and the importance of the North American market in the car industry's there may have been unfamiliarity change. Only those current expatrithree-year recovery cycle are among the key developments anaates who have lived in the UK and have been registered as voters with-in the last five years can now belysed

Heavier buying of fuels by impor-ters this year in response to the fall in oil prices leads Gatt to revise its promise between the Labour Parforecast for the growth in the volume of world merchandise trade to nearer 4 per cent than the 3.5 per cent predicted in its report. Although larger than the 3 per cent recorded in 1985, this increase

ment was necessary to allow the measure to become law in time. Overseas electors are registered contrasts with average annual growth rates of 5.5 per cent during each year for the constituency where they were eligible to vote bethe 1970s and 8.5 per cent in the fore they went abroad and have the 1960s. The slowdown in trade is one of the principal motives for the new Uruguay round of multilateral trade right to vote by proxy at any parlia-mentary or Euro-election, though

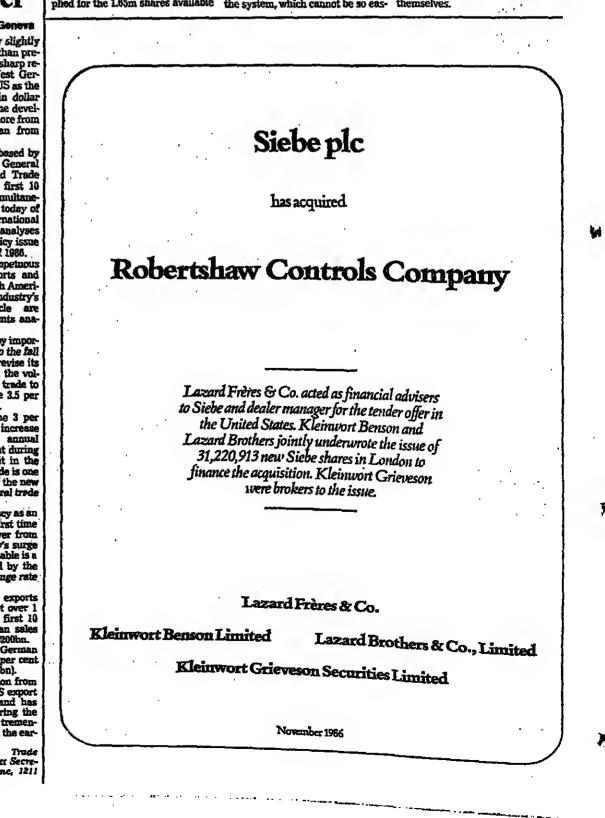
talks. The US will lose its primacy as an exporter of goods for the first time since 1921 when it took over from Britain. But West Germany's surge to the top of Gntt's exports table is a statistical oddity generated by the collapse in the dollar exchange rate

against the D-Mark. Measured in dollars, US exports have risen in value by just over 1 per cent to \$180bn in the first 10 per cent to 3160bn in the first 10 months while West German sales soared by 34.5 per cent to 5200bn. In D-Mark terms, West German export earnings fell by 1.9 per cent in value to DM 440bn (\$220bn).

A more relevant conclusion from the right to sue in EEC courts if they were dealed jobs in the Com-munity but said he knew nothing they are dealed in the com-munity but said he knew nothing growth remains sluggish and has only partially recouped during the past two years from the tremen-dous decline experienced in the ear-

ly 1980s. Gatt International Trade 1985-86, available from Gatt Secreoffering the opinion that it was wa-tertight.

ed it in investment laws last week which money in the stock market could be came last Wednesday when the forbid investment trusts handing dramatically increased. And the Ministry of Finance revealed that over their management to the trad-biggest buy of all would be the between 7m and 9m people had apers. But there is a deeper danger in shares of the securities houses plied for the 1.65m shares available the system, which cannot be so eas- themselves.



### not at local elections. **Turkey seeks** migration deal

**Continued from Page 1** 

of the Council of Ministers will be needed to prepare the ground for an Association Council meeting. Prof Bozer is due to meet Sir Geoffrey on December 18 in what is regarded as a crucial encounter.

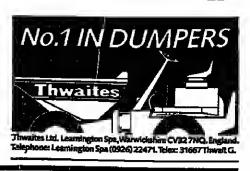
Prof Bozer said he thought indi-vidual Turkish workers would have about any plans to do so. Although Community lawyers

are now trying to play down the seriousness of Turkey's legal case, ly 1980s. Gatt until a year ago they were privately

tariat, 154 rue de Lausanne, 1211 Geneva 21, price SFr 30.



### **SECTION II – COMPANIES AND MARKETS FINANCIAL TIMES**



21

Monday December 1 1986

### St Gobain issue Eurobond market sees the knives out for FRNs

'oversubscribed'

#### BY DAVID HOUSEGO IN PARIS

THE SUCCESS of France's first major privatisation seemed assured the flotation of Saint Gobain, the glass and engineering group, had already been heavily oversubscribed. The issue closes on December 5.

In both Paris and London, "shares" were traded on Friday in unofficial dealings at between FFr 345-FFr 355 representing a pre-mium of 11 per cent to 13 per cent on the issue price of FFr 310 (\$48). Some French banks were reported to have been faced with share

trada printa at time for the au A Start Start demands 10 times higher than they watts may could accommodate. Apart from in- cult. This is because Paribas's comstitutional buyers, more than 1m in- plex banking and industrial inter-ar of such any dividual investors, each entitled to . ests make it more difficult to fix an 10 ears = ..... at least 10 shares, are believed to offer price that is both tempting to shareholders and fair to the state. market spe a fairte for a Government's hopes of generating a popular ownership for denationalused companies. The 20 per cent of shares allowed . And merch is the

to foreigners have already been placed by banks managing the is-sue including Kleinwort Benson in Britain. On offer are 28m shares, representing 64 per cent of the group's capital.

The Government has done its best to assure the success of the isat the weekend with every sign that sue by fixing an offer price of FFr 310 - or only FFr 3 above the last quoted price of its certificats d'investissement (non-voting stock). Other factors that have contributed to the success of the issue, are the

encouraging profit forecasts made by the company and the growing belief in an upturn in the interna-tional glass industry. French officials fear, however,

that the privatisation of Paribas, the state owned investment bank and the next institution on the Gov ernment's list, could be more diffi-At the same time, the privatisation programme is beginning to have a crowding out effect on the French capital markets.

In the first nine months of this year, new bond and share issues by French institutions on the Paris bourse have raised FFr 391bn - an increase of 57 per cent on the same period last year.

LAST WEEK'S tiff in the Eurobond market about Standard Chartered's \$200m perpetual floating rate note be called when the company's priva-(FRN) gave primary dealers plenty tisation plans are clarified, letting it of food for thought, writes Haig transform the FRN into some form Simonian in London. of equity capital. Yet the debate over the success of

the deal and whether the lead manhad cut itself too succulent a helping, seemed something of a digression in a week when the knives were out for FRNs across the board. per priced at London interbank bid rate (Libid) triggered a wider decline.

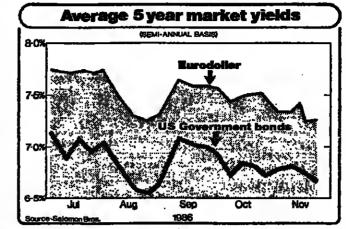
Since then, there had been something of a rally in FRNs thanks to fewer new issues and more gen-erous pricing over London inter-bank offered rate (Libor). Wednesday's perpetual issue for Rhône-Poulenc, the French state-owned chemicals group, offered investors a coupon of % point over six-month Libor for the first three years, rising by % point a year thereafter to a ceiling of Libor plus one percentage

Yet, the paper is cast in an even better light when viewed in terms

ager, Credit Suisse First Boston, of its likely six-year call: " point over Libor for the first three years and Libor plus % for the second three-year span is a juicy spread indeed. Its very different structure Prices for floaters had almost re- means it is not directly comparable, covered from the heavy falls of ear- but many dealers reckoned the ly last month, when the run on pa- terms were much more generous than those for Rhône-Poulenc's re-cent \$275m seven-year credit, which was heavily oversubscribed.

Various reasons lay behind last week's tumble in FRN prices. Rumours about an imminent clampdown on Japanese purchases of subordinated debt got the week off to a bad start. Then there was the continuing overhang of sub-Libor priced paper. However strong the earlier recovery, dealers had only begun to clear the backlog.

In the circumstances, the Stan-Admittedly, few dealers expected of the ensuing price falls. While



some syndicate managers are still squabbling about that deal, opinion pany of America has gone down a treat differs widely about where the FRN The doomsters think otherwise,

market is heading at present. The optimists think floaters will however. They argue the market is going through more than just some seasonal pre-Christmas blues. It is certainly hard for the marketeers to stabilise again shortly, just as they did after early November's sharp persuade a prospective borrower falls. Generously priced FRNs for say a commercial bank - which . high quality names remain in demand. At a spread of 45 basis points over one-month Libor for a likely

could have issued floating rate paper at 5 basis points over Libor a few weeks ago to take the plunge at Libor plus % or plus % now.

Many borrowers will respond by wise, however, the outlook for continuing with short-term funding, straight Eurodollar bonds seems or by turning to the fixed rate mar-ket instead. The word in dollar more promising. straights has been a lot better. stock index of Japanese shares

Signs of renewed Japanese retail interest in the US Treasury Bond market gave the benchmark 30year long bond a healthy fillip. Yields on the long bond were down to 7.40 per cent on Friday against the previous week's close of 7.44 per cent. Earlier last week yields had dropped further, scraping 7.36 per cent on Tuesday.

. That was all good news for the straight Eurodollar market, even if taken more selectively, with five to seven-year maturities benefiting most strongly. The market was thrown out of kilter by the Thanks-giving holiday and the decision of many New York dealers to make it many New York dealers to make it USS a long weekend. But last week's Prev modest new issue volume in Other straight Eurodollars helped to bolstraight Eurodollars helped to bolster prices.

A torrent of pre-Christmas new issues, or hara-kiri pricing by a lead manager anxious to climb the league tables before the year is out, could yet upset tha balance. Other-

and convertible deals for Japanese companies, many of which met with keen investor demand. There has been something of a lull in such deals since the market reached saturation point in September. Is there something to be said for the benefits of restraint? EUROMARKET TURNOVER Turnover (Sm) **Primery Market** Straighte FRN 868.5

Last week's rise in the Nikkei

spurred a number of equity warrant

170.0 3,239.4 91.1 1,587.6 3.0 386,2 280.7 184.5 2,410,4 2,812,3 113,9 USS 2,506.3 779.1 443.5 ry Market 24,171.8 21,117.8 1.254.0 13.579.2 4,341.3 5,967.3 6,168.0 6,076.3 1,423.7 22,381.9 160.1 2,225.8 320.9 2,537.8 12,025.6 12,476.9 Eurocleas Cadal Total USS 13,702.0 26,630.8 16,440.7 41,447.7 60.332.8 57,885.4 21,838.3 22,747.5 Other Prev 10,205.0 11.634.7 11,948.5 Source: AIBC Week to Nov. 27, 1986

### Stunning terms for Renfe in six-year Euronote loan facility

### **Petro-Lewis considers** filing for bankruptcy

#### BY WILLIAM HALL IN NEW YORK

in asset value of a start in asset value of a big property and a close book at present the with a sector the are decrist into Hatir patents inte ships during the boom in oil prices, has defaulted on some of its debt Biands ..... payments and is considering filing for protection under Chapter 11 of

Anter a series and a series of the US bankruptcy code. the triture and the bids is us in the bids is the in 14) 2320 JU 12 23

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- plays It. This

year by

hit by the slump in world oil and hurt many of the "secured" bond gas prices and has frequently holders.

PETRO-LEWIS, the struggling Den- threatened to file for Chapter 11 ver-based oil and gas group which bankruptcy in the past. In the year was one of the most aggressive to end-June, the group lost \$415.6m marketers of oil and gas partner- after taking a \$338m write-down of its oil and gas properties. Petro-Lewis has warned that

unless Freeport-McMoran's \$750m acquisition is allowed to go through, it will have no alternative but to file . The group, which is in the pro- for bankruptcy. Petro-Lewis has cess of being taken over by Free-been losing money for three years port McMoran, a New Orleans-based energy group, has been hard out stockholders equity and would bit he the shore in more than a stockholder of the formation of the stockholder of the stockhol 4.4

ridden like an express train on to new ground in the Euronote market stunned the market when it was unwith the terms of its latest \$315m, veiled on Friday. Besides the low six year loan facility mandated to facility fee, the terms include a Manufacturers Hanover, last week, margin on drawings on Libid flat writes Peter Montagoon in London. plus a utilisation fee of 12% points The deal bears a facility fee of just 2% basis points for the first gether with the facility fee, this will three years rising to 3 points thereafter. This is way below terms ing banks achieved by other European sover-will be equ eign borrowers which have been 1CO credit. pressing for some time against a 4 point barrier.

Terms on the Renfe deal were expected to be very fine, both because of the intense competition among leading hanks to win the mandate and because of the recent successful syndication of a \$50m credit for 1CO; the state credit agency, which carries a margin of 15 basis points over the London interbank bid rate

RENFE, Spain's state railway, has for Eurodollar deposits (Libid). Yet the pricing of the deal still on any amounts drawn. Taken tomean that the return to participating banks on a fully drawn basis will be equivalent to that on the

But it is by no means a foregone conclusion that Renfe will be so lucky. In the first place ICO's deal proved to be quite hard to syndicate despite its oversubscription. In the end it was helped by the fact that lenders can obtain a tax credit that bumps up their yield. The same should apply in Renfe's case but the advantage is less clear. Renfe will use the deal to back up

a time when Spanish paper gen-erally sells at a discount of 10 points to Libid. That means the facility is unlikely ever to be drawn, so that chance of being appointed as a dealthe potential tax advantages to len- er on a Eurocommercial paper proders are rather academic.

In fact Renfe intends to cut the amount of the facility by half, three months after signing. This is because new regulations are due to come into effect in Spain under which Eurocommercial paper issues will no longer have to be fully backed up by standby facilities. It is paying a 4 basis point front-end fee for the facility which is arguably equivalent to 8 points on the smaller amount left after cutting.

Nonetheless the initial response from the market was that the rewards looked scant. Syndication is to be on a selective basis with Manufacturers Hanover looking for

issues of Eurocommercial paper at banks to underwrite chunks of fees are now already so low that through Morgan Guaranty which \$50m. The hope is that enough are their actual level does not matter. willing to take on such a large com- Haggling about every 1/2 basis point mitment in return for the rare makes no sense when in cash terms it is worth only \$25,000 a year for a hank committed to \$50m. gramme guaranteed by the King-Take this point to its logical condom of Spain. clusion, however, and one could wonder whether fees should be

In other words, the fine terms on scrapped altogether. Perhaps banks this deal are the price of a subscripshould even start paying their cus-tomers for the privilege of doing tion for such a coveted dealership. Competition may still prove strong enough to tip the balance in favour business with them. of the deal. Already on Friday about half the amount was covered. On the other hand, banks will also be looking at the cost of applying capital to a commitment which bears such a low return.

Most bankers assume that at some point a line will have to be

carries a margin of % point for the first two years, rising to % point thereafter. Barclays de Zoete Wedd is ar-

ranging a £150m loan facility for Next, the UK clothing retailer, with an accompanying £100m commer-cial paper facility. Half the facility will be on a committed basis with a fee of 6% basis points, while the rest will be a reserve tranche at a fee of 3% points. Drawings will bear inter-est at a margin of 15 basis points

That, of course, is just too flippant. A more reasonable and gen-eral conclusion to be drawn from over Libor. J. Bibby, the agriculture products group, has launched a £70m paper the terms of this deal is that the days of the standby facility to back programme through County Natup Eurocommercial paper issues West, while Cummins Financial of for the best borrowers are simply the US has appointed Goldman on the way out.

Sachs to lead a \$100m, five-year drawn in this respect. Manufactur-ers Hanover argues that facility launched a \$300m, 10-year credit basis points. loan facility at an annual fee of 12.5

### triple A investment, the \$500m issue for Prudential Insurance Com-

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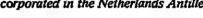
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9th June, 1986

All of these securities have been sold. This announcement appears as a matter of record only.

### **INTERNATIONAL CAPITAL MARKETS**

US MONEY AND CREDIT

### Markets shrug off deepening crisis on arms sales

MANY US traders used Thurs-day's Thanksgiving holiday as an excuse to limit their trading ectivities to the first three days of last week, so the recent per-formance in the US credit mar-kets may not he a mericularly seemed more consistent with

of last week, so the recent per-formance in the US credit mar-kets may not be a particularly reliable guide to the near-term outlook. The equity and fired-incomo markets both managed to shrug off the news of the deepening political crisis in the US Admin-istration over arms sales to lyan, and endod the week highsr than they started. The only area of the financial mar-kets where the dollar came under pressure. Ths price of gold anded tha week \$12 higher at \$390 an ounce and ths US currents

	US MONEY MAR	KET R	TES (%	() ()		
		Last Friday	1 week		High	Low
	Fed Funds (weekly sverage) Three-month Tressury bills Six-month Tressury bills	6.00 6.38 6.41 8.00	6.28 5.36 6.40 5.78	6.82 5.20 5.29 6.71	9.91 7.28 7.38 8.05	8.T 5,0 5.0 8,4
	30-day Commercial Paper	8.88 8.78	0.85 5.78	5.65	5.05 7.95	0.9
	US BOND PRICES		-	(%)		×
			Change In week	Yield	1 week	4 w/d
	Seven-year Treesury	19074	+5	6.97 7.70	6.99 7.70	7.1
•	So-year Treasury New 10-year "A" Financial	101%	+*	7.41	7.44	N//
	New "AA" Long utility	N/A	_	0.00	0.00	8.2

0.00 0.00 8.5% 8.55 N/A = "AA" Long industr Source; Salomon Bros (setimetes). ber 17 Mi fell by \$1.0bn to \$712.3bn. Money Supply: In the week a

NRI TOKYO BOND INDEX					
Average					
December 1963 = 100	27/11/86	yield (%)	week	12-week	21-week
Overall	130.75	80.0	130.38	121,63	124.70
Government, Bonda	131.52	4.73	131.18	123,78	125.31
Municipal Bonds	131.20	5.45	130.66	128.24	124.04
Government-Guerenteed Bonds	131.87	8.52	131.30	128.43	124.51
Benk Debegturee	127.18	4.81	126.88	125.29	122.31
Corporate Bonds	123.57	0.86	129.28	127.25	123.31
Yon-denominated Foreign Bonds .	131.54	8.57	131.27	129.73	125.12
Government 10-yeart		5.46	8.53	8,27	8.67
† Esth	neted per	yield.			-

Source: Nomura Requerch In

week	s price of gold anded the ing weakness in the US \$12 higher at \$390 an sconomy." He argues that the how strongly the US economy that the pace of "junk bond" e and the US currency recent declines in US interest performed in November. To issues has slowed recently. Rev-	Rev-	
slipp and abow per to ad tay-s high cent. At mark chan Treas tho to at s.35 rate cent to si cant. to at tho at s.35 rate to at tho at s.35 rate to at tho at s.35 rate to at tho at s.35 rate to at tho at s.35 rate to at tho at s.35 rate to at tho at s.35 rate to at tho at tho at s.35 rate to at tho at s.35 rate to at tho at at tho at tho at tho at at at at at at at at at at at at at	ed below tho DM 2 level rates have not been sufficiant morrow's reloase of the Nov- lon's shandonment of its \$4.1bn finished tho wsok e shads to rejuvenate the economy and ember inder of leading bid for Gillette has removed e DM 1.97. By contrast, the is looking for the Fed to cut economic indicators is expectible the need for one major issue long bond. Treasury 7 is discount rate again by mid- cent due 2016, continued Fabruary, round about the 0.3 per cent and 0.5 per cent aro still waiting to see bow lyance and closed the holi- time wben Mr Paul Volcker, but the real interest will be easily Drezel Burnham Lam- hortenod week 4 points the Federal Reserve chairman, rat 1014 to yield 7.40 per gives his successful to the market, can market and successful to the market, can marke	1bb         Cop. en         Series         Fasce Fig. 20	Samancor R165.4n
		Futs Inv 8k 11k 91	
	U.S. \$500,000,000 Floating Rate Notes Due September 1998 Morgan Guaranty Ltd	Household Fin 11% 12%       +0%       0.17%       0       +0.17%       Household Fin 11%       11%       -0%       0.5%       Euro invest 5%       10%       10%       10%       0%       7.5%         IBM 5%       50       10%       0       5.12       Farst 68       5%       Farst 68       10%       0       5%       Euro invest 5%       10%       50       10%       4.0%       8.0%         IBM 5%       50       10%       0       5.12       Farst 64       5%       100       10%       0       5%       Euro invest 5%       10%       50       100%       4.0%       8.0%       Euro invest 5%       10%       10%       6%       Euro invest 5%       10%       6%       Euro invest 5%       10% <td></td>	
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	BANK OF TOKYO INTERNATIONAL LIMITED BANK OF YOKOHAMA (EUROPE) S. A. BANK OF TOKYO INTERNATIONAL LIMITED BANK OF YOKOHAMA (EUROPE) S. A.	Long Tarm Cried 105, 00       100       1107       -0.7.26       Man Menores 1, 87	
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		bilinen. FICATING RATE NOTES: US dollara unisas Indicated. Marpio sbove els-month offered tate ( three-month; 5 above rasas rate) for US dollars. C.con-current Coupon. Co	

### - UK GILTS £400m issue brings rally to halt

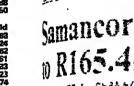
suggests that last week's im-provement in sentiment has not resulted in anything like generalised demand. Still, given the relatively low hevel of gross gilt sales still needod to fund the public this year, and the switch in emphasis to the equivy market, it could be that the suthorities end drabs and still do enough. Mayhe tho market can forget concerns about indigestion in response to supply of stock and

ON TWO eccasions in Novem-ber the Bank of Eogland made available stock which speared to be targeted at pockets of demand in an otherwise fragile marker. In both cases, the beginnings of e cantious rally were snuffed out. About two weeks sgo, the bak took onto its books two stock and since then this sector for foreigners. And it did. All three stocks stock and since then this sector of stock, spread scross the of stock, spread scross the commend in 2022, 9 per cent Con-1.00

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	market in its tracks, the Bank's sensitivity	despite (
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nd"	FT	AIBD INTERNA	I ONAL BOND SEL	RVICE
	has gone quist. On Friday, it announced the issue of £400m of stock, spread scross the maturities spectrum, and prices promptly fell by about half s point, hringing to at least a temporary halt what had looked like the glimmerings of e real hounce at last. It is a salotary comment on the persistant weakness of retail demand that even rela- tivoly modest amounts of stock have been anough to stop the market in its tracks, despite ths Bank's sensitivity to the	-104 per cent Treasury Con- version 2000, and S4 per cent Con- version 2000, and S4 per cent Treasury Loan 2007—are tax- free to residents abread. It was a very large order last Wednseday afternoon from sbroad, switching funds from dollar and D-mark denominated investments into gilts, which sparked off heavy futures shortcovering and confirmed that overseas investors were doing a bit mare than just dip-	may continue to fund in dribs end drabs and still do enough. Mayhe tho market can forget concerns abont indigestion in response to supply of stock and get on with worrying about sterling, oil and the balance of payments. Two reports from securities houses shed soms light. Green- well Montagu concludes that,	tivo strractiveness of UK assets in comparison to the situation prevailing in the last six years." Greenwell says. Warburg Securities, in a re- port entitlad "Equity risk pre- mium (or Why hold gills st all)." says that equittes, even on a risk adjusted besis, have proved to be a much hatter in- vestment that gilts over the last 10 years. Roll on British Gas.



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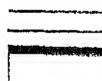
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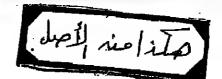
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### **INTERNATIONAL CAPITAL MARKETS AND COMPANIES**

### Plessey fails on Leucadia System X deal

by BT.

BY GUY DE JONQUIERES AND TERRY DODSWORTH

defence group, has failed in its at tempt to break into the French mar-ket with its System X telephone ex-Plessey acknowledged when it change equipment following a three-month assessment by the telecommunications authorities.

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The French decision to reject Plessey's bid was conveyed personally to Sir John Clark, chairman of US, Eriesson of Sweden and Siethe UK company, by Mr Gerard mens of West Germany, have been Longuet, Minister of Posts and talking to the French for well over a Telecommunications, at a meeting year and have had the opportunity in Paris last week. test with the DGT.

Mr Longuet said that System X, the digital switch developed jointly by Plessey and GEC of the UK, did not meet the technical requirements of the Direction Générale des Telecommunications (DGT), the France as a UK alternative to Sys-Government-owned telecommunications authority.

Plessey would not comment on the meeting in Paris. But the Government ruling almost certainly means that the company will have to abandon its plans to join the international bidding battle for the takeover of CGCT, the French company which has a stake of around 16 per cent in the \$370m-e-year domestic public telephone equipment market Plessey has earmarked for attack.

The decision also means that one more overseas market has closed to System X, which has won only one tiny foreign order in the West Indies so far. Contracts overseas to supplement deliveries to British is installed for clients who require Telecom in the UK will be essential particularly high-grade services,

PLESSEY, the UK electronics and for the two British supplier compa-

Plessey acknowledged when it approached the French with Sys-LEUCADIA NATIONAL, the fitem X that it stood only an outside nancial services and insurance chance of winning approval. Other large international telecommunicagroup which has taken equity positions in several takeover tion groups, including AT&T of the stocks, is seeking control of

PHLcorp, formerly known as Baldwin-United, whose collapse in 1983 sent shock waves through Wall Street and the insurance into put their equipment on detailed dustry. Leucadia has bought a 39 per In addition, Plessey's case cannot

cent stake in PHLcorp and said in a filing with the US Securities and Exchange Commission that have been helped by British Tele-com's rejection last year of the E10 switch made by the CGE group of it planned to hold a shareholders meeting as soon as possible to nominate its own directors. tem X. The French have made no secret of the fact that they were

Leucadia said it would conduct deeply angered by the decision and a detailed review of PHLcorp, its assets, operations, properties and policies and might seek to imple-ment one or more plans or pro-posals to maximise the value of its investment. PHLcorp shares particularly by the brusque manner they believe they were dealt with Mr Longuet went out of his way, however, to indicate to Piessey that investment. PHLcorp shares other markets might be open to it in France. In particular, he underlined closed \$% higher at \$11% on Fri-

the openings in cellular radio tele-phone systems and in private branch exchanges, two areas which ay. Baldwin-United changed its name to PHLcorp last month as part of a plan to distance itself from its past following its emer-In addition, it is believed that gence from one of the largest and there may be possibilities for over-seas suppliers in overlay or bypass most complex bankruptcy reorganisations in US corporate hisservices, where special equipment

The company is engaged pri-marily in trading stamps incen-tive schemes, travel services and INSURANCE.

The company recently disclosed a pro-forma balance sheet as of the end of June which showed assets of approxin \$500m, of which just under half would have been assets of its in-Hokkaido surance businesses. It estimated Tokyo Chubu Hokurik that it would have liabilities of \$491m, of which just over \$200m would have been reserves for life, Kansai Chugoku Shikoku accident and health and other insurance related benefits and \$170m would have been estimat-Kyusha ed liabilities for unredeemed trading stamps. Mr Peter A. Martosella,

PHILcorp's chief executive and a principal of the Palmiere compa-ny which has a management services agreement with the group, said last month that with the reorganisation completed the com-pany's management "intends to we vigorously to maxin

### **Japanese utilities**' profits rise 62%

#### BY YOKO SHIBATA IN TOKYO

COMBINED pre-tax profits of Ja • Japan's seven leading trust pan's nine main electric power utili-ties surged 62.5 per cent to Y620.1bn ment business, achieved record pre-(\$3.83bn) in the first half-year to September, drawing benefit from the yen's appreciation and falling

crude oil prices. In addition to the three major companies - Tokyo Electric Power, Kansai and Chubu - another three which achieved record results were Hokkaido, Shikoku and Kyushu. Windfall profits from the strong en and cheaper crude amounted to Y686bn, up about Y80bn from their initial projections. From the windfall, the nine companies made re-bates totalling Y490.3bn to customers including industrial users. The remainder was retained as internal

Combined electricity sales fell 0.5 per cent to 259.8bn kilowatt hours, or a 7.4 per cent fall in value terms to Y5,940.6bn. This reflected depressed industrial power consumptioo in manufacturing industries which have been hit hard by the appreciation in the Japanese curren-

January 1.

Parent com

For the second half-year, the nine power companies expect an in-crease in demand for electricity from household and service sector pressure from export industries to September cut power rates substantially at a Y5,661.9bn, scheduled adjustment

banks, which handle fund managetax profits totalling Y260.53bn (\$1.61bn) in the first half-year to September, a jump of 92.3 per cent from the comparable period of 1985. Net profits showed a 97.6 per cent

increase to Y102.96bn, also a record. The earnings strength was attributed to the improvement of their in-terest spread. Fund procurement costs declined in line with the lowering of long-term interest rates in Japan, while a much smaller decline was shown in operating yield such as interest rates for housing loans.

The buoyant earnings performance was also attributed to a sharp gain in income from trust business and securities and proper-ty transactions. Combined income from trust fees such as loan trusts and money funds gained by 34.8 per cent to Y236.5bn.

Combined commission income jumped by 60.5 per cent to Y152.9bn, a gain which was attributed to active participatioo in securities and bond markets by institutions and corporate investors, through so-called Tokkin specialised trust accounts and other funds, a trend itusers. However, demand for indus- self reflecting the strength of stock trial use is thought unlikely to re-cover yet. The electricity generating industry is likely to come under counts and trust funds in the Aprilhalf-year reached

equivalent

A	Company n	ECTRIC soults, ha	POWE	R COMP/ to Septem	ber 19	88
		los		x profit		profit
	Ybn	%	Ybn	%	Ybn	%
	217.5	(- 2.3)	19.6	(+65.9)	12.3	(+ 98.3)
	517.1	(- 84)	11.3	(+24.4)	20.0	(+ 11.0)
	1,978.9	(- 6.0)	186.9	(+83.2)	90.4	(+141.0)
	846.3	(-10.4)	134.6	(+95.7)	65.7	(+143.3)
	178.4	(- 7.2)	21.8	(- 27)	9.9	(+ 16.1)
	1,060.5	(- 6.2)	113.6	(+73.7)	46.8	(+190.9)
	403.5	(-11.9)	32.8	(+16.1)	17.9	(+ 18.6)
	201.3	(- 9.8)	25.4	(+12.3)	12.8	(+ 11.9)
	536.7	(- 5.5)	13.6	(+62.7)	19.5	(+ 10.6)

Parent company results, half-year to September 1986												
	Operatin Ybn	g income %	Pro-ta Ybn	x profit %	Net profit Ybn %							
Sumitomo	427.9	( 8.8)	64.6	(77.7)	25.0	(101.7)						
Mitsubishi	420.2	(-0.7)	60,1	(72.8)	24.9	(102.4)						
Mitaui	349.6	(1.5)	47.4	(106.7)	19.2	( 85.6)						
Yasuda	327.5	( 5.2)	36.2	( 87.6)	14.0	( 90.9)						
Toyo	218.5	(17.2)	31.3	(116.6)	13.1	( 91.6)						
Chuo	139.8	(24.5)	16.2	(213.3)	5.0	(161.2)						
Nippott	55.3	( 0.2)	4.9	( 87.4)	1.6	( 80.2)						

### **Canadian bank improves**

#### BY BERNARD SIMON IN TORONTO

BANK OF NOVA SCOTIA, Canada's fourth biggest banking group, raised net income to C\$336.2m (US\$243m) or C\$1.94 per share, in the year to October 31, from C5303.6m, or C\$1.82 a share, in fiscal 1985. Fourth-quarter earnings rose from C\$82.3m to C\$100.1m.

ment partly to a 5 per cent increase C\$376.3m to C\$435.4m. in earning assets to C\$59.8m, main- 
BNS's loan loss provisions in the ly in the form of Canadian loans, table on page 15 of the Canadian mortgages and bankers accept Banking Survey published ou Octoances. Non-interest income climbed ber 3 were inadvertently shown as 23 per cent to C\$435m. reflecting quarterly figures. instead of the higher foreign exchange revenues, nine-month data given for other corporate credit fees and new prod- banks. BNS's nine-month provi-

sions were C\$306.3 in 1986 and Annual loan losses grew from C\$224.2m last year.

The bank ascribed the improve-

	-						
Barrowers	Amount EL	Maturity	Av. life years	Coupca %	Price	Book Runner	Offer yick %a
O.S. DOLLARS							
Loces ind. §‡	. 61	2001	15	51/2	100	J. H. Schroder Wagg	5.608
Aichi Toyata Motor Co. 91	28	1891	5	374	180	Nooura lat.	3.750
Kanto Katurel Gas 17	40	1991	5	3%	198	Yumaichi Int. (Eur)	3.75
Harima Chemicals ¶‡	30	1991	5	34	106	Dahwa Europe	3.750
Pepsico ‡	100	1991	5	7%	18142	SBCI	6.86
ECSC ‡	85	1995	10	01/4	104,2	Shearson, Sumitamo Tr.	7.634
Standard Chartered (b) † ‡	200	Perp.		15bp	100	CSFB	
Swedish Export Cr. 1	100	1991	5	71/4	10134	Deiwa Europe	6.82
Daiwa O'seas Fin. ‡	100	1993	2	7%	101%	CSFB	7.567
UBS Finance ‡ Minetuse ‡	208 190	1993 1991	75	7¼ 7¾	101 101%	UBS (Secs) Dalwa Europa	7.964
Pokang Steel (c) 1‡	75	1995	18	Va Va	100	BA (Asia)	1.261
Shisaide Co. 1	120	1991		∨∎ (35⁄a)	109	Daiwa Europy	
Ricon-Pouleac (d)†‡	300	Perp.	5	(398) 3/5	190	Société Générale	
BJ Finance ‡	209	1992	5	7%s	1013/2	BJ Int.	7.03
odegewe Steel Wike 1	70	1091	ŝ	{3¾}	180	Yamaichi Int. (Eur)	1.03
Chiby Bank §	100	2002	151/4	(23/2)	188	Nontra Int.	
Takasego Thermal Eng. ¶	25	1991	5	(33/4)	189	Yamaichi lut. (Eur)	
Dev Bk af Singapore S	180	2001	15	(4)	180	Daiwa Secs.	•
CANADIAN DOLLARS Lobiew Cos. (a):	- 75	2001	15	10	181%	Orion Royal Bank	9.837
D-MARKS							
Neder. Middenstandsbk ¶‡ SWISS FRANCS	150	1993	77	21/4	180	BHF-Bank	2.25
chikok Ind. **§†	38	1992	_	1%	106	SEC	1.12
lippon Chemipher ** ¶‡	59	1991	-	23/2	100	<b>Bgs Paribes (Suisse)</b>	2.37
Shisaido Co. 1	160	1993	-	(21/4)	•	Credit Suisse	
Shiseide Co. ** ¶	190	1993	-	(252)	•	Credit Suisse	
Vieidensta Elec. Mig. **§	128	1992	-	(1%)	(100)	Banca del Gottardo	•
lai-Ichi Seiyaku * 5	109	1992	-	(1%)		Credit Suisse	•
Sqe Algerienne d'Dev. (e) †‡	60 max,	1996	-	1/2	109	SBC	
lankai EL Railway	50	1991	-	4%	108%	B.della Sviz. Iteliana	4.78
Dsaka Fish Market **§	50	1992	-	(1%)	100	Handelshank	
Takara Standard **5 Googawe Bubber **	40 20	1992 1993	-	(1%)	100 (9934)	Bank Julius Baer Grégit Suisse	
Gingawa Rubber ¶	30	1993	-	(5) (2%)	(3344)	Crédit Suisse	
B ••±	175	1991		4%	108%	UBS	4.586
Standard Chartered "	300	1987	-			Handelsbank	
Cils							
Fiat Fia. and Trada 🕻	50	1991	4.6	8	101%	San Paolo Bank	7.536
lerospatiale ‡	75	1992	5	7%	168%	Credit Lyonnais	7.440
SUILDERS Xedit Fencier 1	250	1997	18	61/2	100%	ABN	6.466
ANISH KRONER		1001					0.100
Caripio ‡	258	1993	61/2	10%	100	Enskilde Secs.	18.375
UXEMBOURG FRANCS							
Worgan Grenfell lav. **‡	396	1992	8	7%	100	Knedietbank lat.	7.375
aropeen Community 2	1bn	1996	10	7	100	Kredietbank lat,	7,000
EN				-			
taly ‡	30im	1992	6	5%	1891/2	1BJ Int.	5.270
lingen Off ± lingen Off ±	20bn	1992	6	8	113	Nomera Int.	5.405
woman CM T	30bn	1992	6	5%	101%	Yamaichi Int. (Eur)	5.376
Nordic Inv. Bank 1	Bbs	1994	71/2	(f)	1013/4	Will fut.	-

\* Not ing rate acts. 1 With equity warrants. Ø With bond warrants, A Currency-En-bonds. (b) 15bp over 6m Libor, additional \$100m tap. (c) Ve over 6m Libor hed. (a) Coupon 10% first 5 years, retractable/adjustable bo over 6m Libor, first 3 years, in m of 1%, (c) 1/2 over 6m Libor. (f) Coupon 3% ry 3 years to 8.35% thereafter. Note: Yields are calculated on ABD basis.

æ	pre-tax	prom		was R4.		ne hre.	as prom		rtmities availabl		Nippon	55.3
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	·			•							Novemb	er 1986

### Samancor surplus falls to R165.4m in interim

#### BY JIM JONES IN JOHANNESBURG

SAMANCOR, South Africa's largest manganese and ferro-alloys company, saw a workdwide drop in carbon steel production affect ore and alloy sales in the six months to September 30, 1986. Nevertheless, strong demand for

ferro-chrome and the persistent weakness of the rand against the dollar combined to lift the half- to R37.2m (\$8m) from R46.7m in the year's turnover.

The first-half's turnover rose to interim operating point of 1905, the R401m (\$86.2m) from R351m in the and interest fell to R3.5m from corresponding period of 1985, but R5.4m and the pre-tax profit was the interim pre-tax profit slipped to RL9m against B3.5m. Turnover was R165.4m from R165.6m. In the last R94.2m in the financial year to financial year turnover totalled March 31 1986, the operating profit B803m and the R336m.

Rand London, the troubled South African mining company controlled by Burnett and Hallamshire, suf-fered a profit decline in the six months to September 30 and is continuing with its rationalisation and asset disposals programmes.

particularly high-grade services.

The first half's turnover dropped corresponding period of 1985, the pre-tax profit was was B7 9m and the pre-tax montit

### buys 39% stake in PHLcorp

By William Hall in New York

### J. BIBBY & SONS PLC

#### £70,000,000

#### **Multi-Option Facility**

#### Arranged by **COUNTY NATWEST CAPITAL MARKETS**

#### **Underwriting Banks**

Australia and New Zealand Banking Group Limited **Barclays Bank PLC Credit Suisse** National Westminster Bank PLC Société Générale

#### Banque Paribas (London) Crédit Agricole London Branch Midland Bank plc N M Rothschild & Sons Limited Standard Chartered Bank

**ANZ Merchant Bank Limited** Banque Paribas (London)

Brown, Shipley & Co Limited

Morgan Grenfell & Co. Limited

N M Rothschild & Sons Limited

**Credit Suisse** 

Midland Bank ple

Société Générale

S.G. Warburg & Co. Ltd.

County NatWest Capital Markets Limited

#### **Tender Panel Members**

Australia and New Zealand Banking Group Limited **Bank of Montreal Barclays Bank PLC** Chase Investment Bank Crédit Agricole London Branch Dresdner Bank AG Samuel Montagu & Co. Limited National Westminster Bank PLC The Sanwa Bank, Limited

Standard Chartered Bank

**Facility and Tender Panel Agent** NatWest Investment Bank Limited

& The NatWest Investment Bank Group

### LUCIUNIS

### Record profits for 1986

#### Summary of Results

Year ended 31st May	1986	1985
Turnover	£241.7m	£276.6m
Profit before tax	£42.4m	£38.6m
Earnings per share	42.97p	38.61p
Total dividend per share	6.50p	5.90p

Highlights 1985/86: In a year when, as a result of exchange rate movements, the contribution to group profits from the Nigerian operations has declined, it is very encouraging to be able to report improvements elsewhere in the

group which more than offset this fall. Considering the difficulties under which they were operating the Nigerian companies did remarkably well. The new economic measures introduced in September should help to achieve a satisfactory rescheduling of the country's foreign exchange obligations which in turn should allow time for the local economy to benefit from the relaxation of controls.

Profits of the Cussons group showed significant improvement. The U.K. companies made further gains in market share and continued to benefit from favourable raw material prices. Record profits were made in Australia while the Kenya company maintained its position and both these subsidiaries have plans to increase their production capacities.

Current year: The movement in Nigerian exchange rates means that group profits of the first half-year are expected to be lower than the corresponding period of last year. Results of the second half-year should be comparable with the second half of 1985/86.



PATERSON ZOCHONIS PLC, BRIDGEWATER HOUSE, 60 WHITWORTH STREET, MANCHESTER M1 6LU. Africa - United Kingdom & Europe - Australia & Far East

PZ

### **UK COMPANY NEWS**

#### THE MCCORQUODALE CASE

### Panel chairman to explain 'concert party' rejection

BY RAYMOND HUGHES, LAW COURTS CORRESPONDENT

24

fin, a company formed by an Pru-Bacbe, epplied element in McCorquodale that the K10 purchase.

element in McCorquodale that favours a management buy-out. Pru-Bache'a complaint to the panel, and the basis of its chal-lenge to the panel's ruling, have been overshadowed by the fact that the court hearing has become the first detailed es-amination of the legal status of the panel and the extent, if any, to which it is under the control of the courts. Pru-Bache complained to the panel that a last-minute pur-chase of McOrquodale shares by the Knwait Investment Office, one of Norton's "core"

hy the Knwait Investment Arrangements had clearly Office, one of Norton's "core" been made to enable KIO and underwriters, at 315.5p, when Norton to pley the same game Norton's cash alternative was on the same side and in time 303p, was the result of a "con-with each other, and to do so

cert party." The KIO purchase tipped tha balance in favour of the Norton

#### **Rushlake has** 10% stake in **Mitchell Cotts**

Rushlake Holdings has increased to 10 per cent its stake in Mitchell Cotts, the engin-eering, chemical and trading group.

When Rushlake, a private company controlled by the Jlvraj family, first built up a stake in Mitchell early this month, it stated that it viewed the bolding as a long-term in-vestment. It has bad no contact with Mitchell Cotts. Rushlake has a 57 per cent

controlling stake in London Park Hotals and also bas a 64 per cent stake in Wigfalls, the electrical retail and rental group, It recently sold a 10.9 per cent stake in Thermax Holdings, the USM-quoted glass manufacturer.

#### Circaprint

Circaprint Holdings, USM-quoted maker of circuit boards produced slightly lower pre-tax profits fort ha year to August 31 1986 at £627,000 against

Authorised £650,000

SIR JASPER HOLLOM, chair-man of the City Takeover Pru-Bache alleged that KIO Panel, will today tell the Court ected in concert with Norton of Appeal why the Panel and Greenwell Montagu, Nor-rejected a "concert party" ton's broker, to enable the bid complaint mada by Prudential-bache, the US securities house, cially. In the battia every the first Bru-Bache's original argument

Bache, the US securities house, in the battla over the f155m The court resumes its bear-ing of the judicial review of the Bache, which is advising Deta-fin, a company formed by an element in We Corcaudale the function of the judicial review was thet panel's decision sought by Pru-Bache, which is advising Deta-fin, a company formed by an element in We Corcaudale the function of the function of the function of the function function of the function of the function of the function function of the function of the function of the function function of the function of the function of the function function of the function of the function of the function function of the function of the function of the function function of the function of the function of the function function of the function of the function of the function function of the function of the function of the function function of the function of the function of the function function of the function of the function of the function of the function function of the functio

without direct communication with each other, Mr Lever said.

quarter.

judicial review claim is an all or nothing one: that if it does not have a claim under public

and the second second

law it has no claim at all. However, part way through the hearing, at the invitation of Sir John Donaldson, the Master of the Rolls, the company pro-duced e writ claiming the private law remedies of an injunction and damages against

the panel. The existence of the writ will enable the court, if it decides that the panel is not susceptible to public law, to see whether it can be sued under private law.

For that to be the case there would have to be found some form of contractual relationship form of contractual relotionship between the panel and com-panies appearing before it. Such a relationship would enable a company dissatisfied with a panel ruling to go to court-without tha indicial review pro-cess requirement of first having to coal permission from the

to seek permission from the court-and claim private law orders against the panel. The hearing is expected to finish today and the likelihood

ith each other, Mr Lever said. is that the court will take time Any panel acting reasonably, to consider its jndgment.

### **Cranswick Mill lower**

Cranswick Mill Group, the excess of those of the corres-Cranswick Mill Group, the excess of those of the corres-USM-qnoted animal feeds manu-facturer and dealer in whole-sale livestock, reported pre-tax facturer and dealer in whole-ever, this progress was not sus-tained in the second three-month period. Group turnover rose by 22 per cent from £16.7,000 to fig7.000 and earnings supernated

£137,000 and earnings amounted The directors said that the to 4.5p (6,7p). The interim was year had started encouragingly, 1.85p as against the 1.77p with first quarter results in indicated in the prospectus.

### **Munton £1.9m rights**

Although the directors were unable to make a profits fore-cast for the year, they announced that sales had im-Munton Brothers, clothing manufacturer and supplier to Marks and Spencer, has announced a nine-for-ten rights amounced that sales had the proved in recent weeks and that they viewed the future with confidence. In the year to June 30, 1986, Munton made pre-tax profits of £111,060, Just more than 14.8m new issua to raise £1.9m. The direc-tors have indicated that £1.35m of the proceeds will be used for spending on new plant and equipment and £200,00 on com-puterised control systems.

Issued and now being issued fully paid 0p £516,430

Plans are underway to estab-lish a garment processing opera-tion at a cost of about £415,000. will act as underwriters.

**COMPANY NEWS IN BRIEF** 

#### **British Gas** to take soft line on late applications

#### By Richard Tomkins

As the response to the \$5.60n offer for sale of shares in British Gas gathered momentum over the weekend, N. M. Rothschild, the mer-chant hank sponsoring the issue, indicated that it was likely to take a soft line over applications which failed to arrive before this. Wednes-day's 10 am deadline. The total mumber of appli-cations received so far is well over 2m and the forms are now arriving at the rate of more than im a day. This means that even if only a small proportion is delayed in the post, many people's applications.

the deadline.

To avoid bad feeling among To avoid bad feeling among would-be investors, Roths-child says it is likely to take a lenient view of late appli-cations provided they carry a first class stamp and are post-marked with a date no later

than tomorrow's. A poll of 100 institutional A poll of 100 institutional fund managers by City Research Associates found that 36 per cent of them expected British Gas's shares expected British Gas's shares to go to a premium of 10p to 20p when dealings began, and 33 per cent expected a premium of 20p to 30p. This compares with Friday's "grey" (unofficial) market price of 62p for the 50p

In also emerged that the majority of applicants so far have opted for tha incentive of the one-for-10 loyalty of the one-for-10 loyalty bonns at tha end of three years rather than the gas bill vouchers, suggesting that a high proportion of epplicants intends to become long-term sharebolders.

#### Leopold Joseph

#### down midway

Leopold Joseph Holdings, banking and merchant bank-ing concern, said profits before tax for the half year to September 30, 1986 were somewhat lower than in the corresponding period of the previous year. This reflected the not unusual pattern in the flow of business, the

directors stated. They declared an unchanged interim dividend of 2.812p per £1 share. The current year's ontcome was again expected to be satisfac-

BOARD MEETINGS ing companies have notified

### Barry Riley on the listing of MIL Research Expanding into a bigger league

19 . La Line

ON HEARING Rudi Goldsmith and Stanley Orwell arguing with each other, the visitor might concluda that their rela-tionship could not last long. In fact, the two have been close business partners for more than 30 years, building up Britain'a sixth largest market research company MIL Re-search Group.

research company MiL Re-search Group. Later this month the com-pany will obtain a stock market listing through a placing by County. Part of the proceeds will be used to buy a similar, though smaller, US business called Market Measures, build-ing up the group's overnass called Market Measures, build-ing up the group's overseas operations which aiready in-clude an American subsidiary as well as a German business. The move, according to Mr Goldsmith, the chairman, marks the company's graduation to e higger league. "Market re-search bas ceased to be a cot-tage industry." he says. "You have to get bigger or you have to become a boutique. The market for middle-sized firms will be squeezed." MIL has sought to ovoid the

Mr Rudi Goldsmith, the MIL chairman emphasises

Healthcare is a major client MIL has sought to ovoid the most competitive sectors of the market research industry, where large sums have to be spent in tendering for each contract against many rivals. The company, finds that it rarely has more than two or three competitors in its own fields.

US is the operation of a hos-pital technology andit under an exclusive agreement with the American Hospital Association, providing data on diagnostic It has prospered on the basis of several specialties, dealing especially for the pharmaceuti-cal, motor and information technology industries. Although equipmen

MIL has a few major regular clients like Genaral Foods and Unilever in the consumer field, it generally steers clear of this In the motor industry MIL has pioneered the technique known as quality tracking, whereby component faults in highly competitive area. "We have e smaller than "We have a smaller than cars can be detected through normal percentage of our work markat research techniques in the area of interviewing before they show up, much housewives," Mr Goldsmith more expensively, in warranty

elsims. Ford, Jaguar, Rover and Volvo are among the manofac-turers using this service, which involves telephoning car buyers 30 or 60 days after delivery. The third speciality sector is information technology, where MIL's subsidiary industrial Data has helped to set up the

Contec service, a multi-client database which covers current and potential users of various information technology products.

ducts. Jointly founded in 1955 by Mr Goldsmith and Mr Orwell, deputy chairman, MIL (origin-ally known as Market Investigations Limited) now has five subsidiaries and a nine-man subsidiaries and a mini-main board. Turnover, including Market Measures, reached £9.6m in tha latest year, and pre-tax profits were £772,000, with a significantly higher figure expected for the current

figure expected for the current year. In the past MIL has been owned on a 50-50 basis by the two founders, but there will now be a substantial restruc-turing. "At one stroke I have settled many of the commer-cial questions for the com-pany," says Rudi Goldsmith.

Healthcare is a major client area, where MIL works for most of the major pharmacentical companies, measuring markets and assessing the views of the medical profession. Its Chicago-based subsidiary will now be merged with the similar New Jersey-based medical research specialist Market Measures, and the latter's president Mir Bernard Koff will be joining the board. One notable activity in the US is the operation of a hos-mind the latter's president area will be Phillips & Drew). Part of the proceeds will he used to enable MIL to take up its option to purchase take up its option to parchase Market Measures. Elsewhere, minority stakes beld by execu-tives in subsidiaries will be rolled over into shares of the par-

ent group. Mr Goldsmith says that the public listing will enable MIL to consider further ecquisi-tions, though no particular deal is in mind et present. It will also be possible to offer stock option schemes to executives.

FIVE YEAR RECORD Pre-tax Turnove £000 for the second s 35 211 288 573 772 4,700 6,000 7,400 8,600 9,600 1983 1984 1985 1986

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The question of providing for management succession has also been a factor. The excitable and voluble Rudi Goldsmith is said voluble Radi Goldsmith is said to have provided the company'e husiness drive, while the soft-spoken Stanley Orwell has pro-vided much of the creative talent. But with the more than doubling of turnover in the past five years much of the day-to-day responsibility for pro-jects has already passed to other executives. executives,

The two founders are not planning retirement yet, and they will retain a controlling stake, but they are concerned obout the continuity of the business. Mr Goldsmith mentions the possibility of a management buyout of the controlling interest eventually.

interest eventually. Meanwhile, he says, the chal-lenge for market researchers is to develop e multinational capa-bility, and to invest in expen-sive databanks. MIL already has extensive computer-based facili-ties which enable it to monitor the results of surveys while they are still under way.

are still under way. There is an increasing need to deal with the head offices of large multinationals. "Local management is losing authority for market research." says Rudi Goldsmith. "Products are becoming too expensive to be designed for one market, International product managers re-quire international surveys to be conducted under comparable conditions."

### Alice Rawsthorn looks at the latest USM flotation Northumbrian makes a healthy debut

company had no assets to use quotation make it all sound so as security for a loan. But in order to increase sales, then standing at £39,000, Mr Adams simple. As the experience of Northumbrian Fine Foods, a health food and hiscuit pro-ducer which is joining the USM tomorrow, shows it is often fraught with difficulties, desperately needed to expand.

In 1970 Mr Richard Adams, a Lloyds insurance broker who and took an option on a 29

had grown tired of spending his days "standing in queues waiting for underwritars er being herded like cattle into

Three banks later, he finally secured an overdraft of £10,000. Investors in Industry then produced a loan of £30,000 company's turnover. At tha

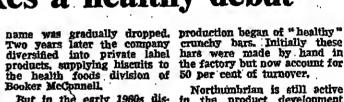
200



ALL TOO often accounts of a factory was rented, the mach- name was gradually dropped, production began of "healthy" company's passage to public inery accoud hand. The Two years later the company crunchy bars. Initially these quotation make it all sound so company had no assets to use diversified into private label hars were made by hand in

But in the early 1960s dis- in the product development aster struck. In 1981 the field, It aims to introduce Government extended VAT to between .20. and 30 new cover carob coated products. products a year and uses the These accounted for half the flexibility of its small production base to do so. A recent innovation is the Jungle Bar,

a fruity chewy bar devised as a healthy alternative to chocolate which additive con-





ti (istr. pring) bub CC An N	om 27.35m to 28.51m. After tax of £209,000 E145,000) earnings per 10p nare were down from 9.3p to 9p. But the directors are roposing an increased single nal payment of 1.278p, com- ared with 1.05p last time. <b>FT Share Information</b> The following securities have seen added to the Share formation Service. erry, Birch & Noble (Section: Insurance) itygrove (Property) omtech 11;pc Gtd. Conv. Una. Ln. 1996 (Industrials) iterlink Express (Industrials)	dend 2.5p (nil), making 2.5p for the year ended August 30, 1986. Turnover 1£6.6m (£6.4m) and pre-tax profit 1£41,279 (1£265,175 loss). Net profit 1£29,694 (1£256,551 loss) after tax of 1£11,585 (1£8,624 credit). Earnings per share 4.69p (43.02 loss). SCOTTISH INVESTMENT TRUST net asset value was 483.1p (349p) per 25p share at end October 1986. Earnings per share were 6.55p (5.81p). Final dividend 4.25p making 6.55p (5.96p) total. After-tax revenue was £5.69m (£5.06m). FENNY AND GILES (elec- tronic instrumentation)—Turn- over £8.37m (£6.9m) and profit £581,000 (£414,000) half year ended September 30 1986. Earnings 4.22p (2.62p) and in-	fident in prospects for continued growth, both organically and hy acquisition. BERRY PACIFIC (Sterling) Fund: Net assets attributable to shareholders equity of the fund at September 30 1986 were £40.57m (£18.94m). Net income for the period was £46,633 (£270,108). MARINE ADVENTURE Salling Trust net asset value per £1 shere was 282.6p (207.3p) at revenue £31,000 (£15,000). Total distributions to the Marine Society (gross) £122.463 (£151.320). MURRAY TECHNOLOGY Investments net asset value fell from 116.19p to 110.39p per share in six months to Septem- her 30 1986. Net incoma was £59,785 (£45,219), or 0.4p (0.3p)	field for the purpose of considering dividende. Official indications are not available as to whathar the dividends are interime or finals and the auto- dividends shown balow are based meinly on last year's timerable. TOOAY Interima: Arien, Chemberiln and Hill, Cheises Men, Creighton Laboratories, Orummond, Lynton, Meriling Industries, Norton Opax, Piston International, Stirling, TR Natural Rasources Invest- ment Trust, Zygal Oynamics. Finals: AE, Thomas Boortwick, Oundes and London Investment Trust, Polly Peck, Trafalgar House. FUTURE DATES Interime- British Benzol Osc Boort Invest. Trust. Osc 8 Osc Boort Invest. Polly Consort Invest. Trust. Osc 10 Priest (Benjamin) Osc 3 Finals- Rolfs and Nolas Dec 3 Finals- Raining Sosts	Chelsea and the City," bought a small, specialist biscuit com- pany in Gateshead, near New- castle, in conjunction with his father. Shaws, which had begun life as the Cottaga Bakery manu- facturing a family recipe of Yorkshire parkin, then supplied a limited range of specialist biscuits to food stores ecross the conntry. "The biscuits	alternative per cent holding for £7,800. Tha company increased pro- duction and turnover rose steadily throughout the late 1970s. Shortly after his arrival Mr Adams developed the first "healthy" biscuit. In 1973 tha Northumbrian range of pro- ducts was introduced, using	wation devised as a heatthy to chocolate same time raw material prices rocketed. This prompted a sharp risa in hiscuit prices, and a consequent fall in sales. The company regained lost ground by broadening its base of both customers and products. Private label production has been extended to Boots, Sainsbury and Nestle. Overall privote label activities now	shares would have helped. Once the flotation is completed the company is eager to embark upon acquisitions among the privately owned companies which make up the fertile "cottage" industries of	Hospic
	for the grant of permission to Securities Market. It is empha-	a compliance with the regulations of the C deal in the Ordinary Shares of 10p each of sisted that no application has been made for ement does not constitute an invitation to the statement does not constitute an invitation to the statement of the statement does not constitute an invitation to the statement of the statement does not constitute an invitation to the statement does not constitute an invitation does	f the Company in the Unlisted	It does not constituite an inter	ed in compliance with the requirements of the C station to the public to subscribe for or purchase DWEDGWOOD ] gland under the Companies Act 1985. Reg	HOLDINGS plc	E Alliance	LEICESTER Leicester g Society	

Introduction by S.G. WARBURG & CO. LTD.

of 456,276,567 Non-Voting Income shares of 1p each

SHARE CAPITAL

in Income shares of 1p each

Issued and to be issued £4,562,766

Waterford Wedgwood Holdings plc is a holding company, wholly-owned by Waterford Glass Group plc, established to effect the acquisition of Wedgwood plc.

Application has been made to the Council of The Stock Exchange for the Non-Voting Income shares of Ip each of Waterford Wedgwood Holdings plc to be admitted to the Official List of The Stock Exchange and of the Irish Unit of The Stock Exchange. It is expected that dealings will commence on 1st December, 1986.

Listing particulars relating to the Company are available in the Extel Statistical Services and copies of such particulars are also available during normal business hours from the Company Announcements Office of The Stock Exchange for collection only until 3rd December, 1986 and on any weakday (Saturdays and Bank holidays excepted) up to and including 15th December, 1986 from:

Cazenove & Co. 12 Tokenhouse Yard, London, EC2R 7AN rd Wedgwood Holdings plc Portland Works, Longton, Stoke-on-Trent, Staffordshire ST3 1AI

Authorised

£6,200,000

Scringeour, Vickers & Co., 20 Copthall Avenue, Londoo, EC2R 7/S S. G. Warburg & Co. Ltd., 33 King William Street, London. EC4R 9AS

1st December, 1988

S.G. Warburg & Co. Ltd. Agent Bank Korea Exchange Bank

£100,000,000

Floating Rate Notes due 1994

Issue of

£200,000,000 Floating Rate Notes 1993-

In accordance with the provisions of the Notes, notice is hereby given that, for the three months period, 27th November, 1936 to 27th Reb-nuary, 1987, the Notes will bear interest at the rate of 11% per cent per annum. Coupon No. 4 will therefore be payable on 27th February, 1987 at \$2,914.38 per coupor, from Notes of \$100,000 nominal and \$145.72

Sterling Denominated Notes

given that the Rate of Interest for the Interest Period 28th November, 1986 to 27th February, 1987 has been fixed at 1114% p.a. The Coupon Amount payable on 27th February, 1987 against presentation of coupon number 9 will be £145.69 for the £5,000 Notes and £7,284.67 for the £250,000 Notes.

U.S. Dollars Denominated Notes

U.S. Dollars Denominated Notes in accordance with the orovisions of the Notes, notice is hereby given that the Rate of interest for the interest Period 28th Novomber, 1986 to 28th May, 1987 has been fixed at 61% p.2. The Coupon Amount payable on 28th May, 1987 against presentation of coupon number 7 will be US\$158.69.

Manufacturers Hanover Limited Agent Bank

1,702,850 Ordinary Shares of 10p each at 94p per share Gaynor Group ple supplies a range of quality plastic packaging products, principally carrier bags, to major high street store and supermarket groops, merchants and packaging converters in the U.K. A proportion of these ordinary shares has been offered to Henry Cooke, Lunsden Limited, P.O. Box 369, I King Street, Manchester M60 3AH. Full particulars of the Company are available through the Extel Unlisted Securities Market Service, and copies may be obtained during usual hours op to and including 15th December, 1986 from: Capel-Cure Myers, 65 Holborn Viadac London EC1A 2EU Member of the ARE Group 1st December, 1986

Gaynor Group plc

Share Capital

in 6,500,000 Ordinary Shares of 10p

Placing by Capel-Cure Myers

FINANCIAL TIMES STOCK INDICES												
	Nov. 28	Nov. 27	Nov. 26	Nov. 25	Nov. 24	Nov. 21	19 Nigh	Low	Since Co High	mpilation Low		
Government Secs.	81.75	81.77	81.06	81.11	81.32	81.00	94.51	80.39	127.4	49.18		
Fixed Interest	88.55	88.55	68.34	88.29	88.42	88.15	97.68	86.55	150.4	50.53		
Ordinary	1292.2	1286.0	1286.3	1270A	2282.6	1274.2	1425.9	1094.3	1425.9	49,4		
Gold Mines	314.5	302.2	299.7	295.2	291.7	311.5	357.8	185.7	734.7	43.5		
FT-Act All Share	815.34	813.07	812.59	806.11	812.36	807.63	832.39	664.42	832.39	61.92		
FT-SE 100	1636.7	1632.5	1633.0	1619.3	1636.5	1624.9	1717.6	1370.1	1717.6	966.9		

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is S, Ind S	12 Badly floored by beginner? Nonsense (8)8 Unresponsively about misplaced legal qual- ification (6)13 Was Victor running after wife? (3)12 Abandoned in favour of tabout misplaced legal qual- ification (6)4 Your retreat on hearing12 Abandoned in favour of tabout misplaced legal qual- ification (6)	Equitable Units Administration Ltd Geta incore & Geta 131 671 472 362 from this form the formation Ltd (35 MC From the formation 104 07 105 107 104 107 105 107 104 107 105 105 105 105 105 105 105 105 105 105
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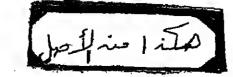
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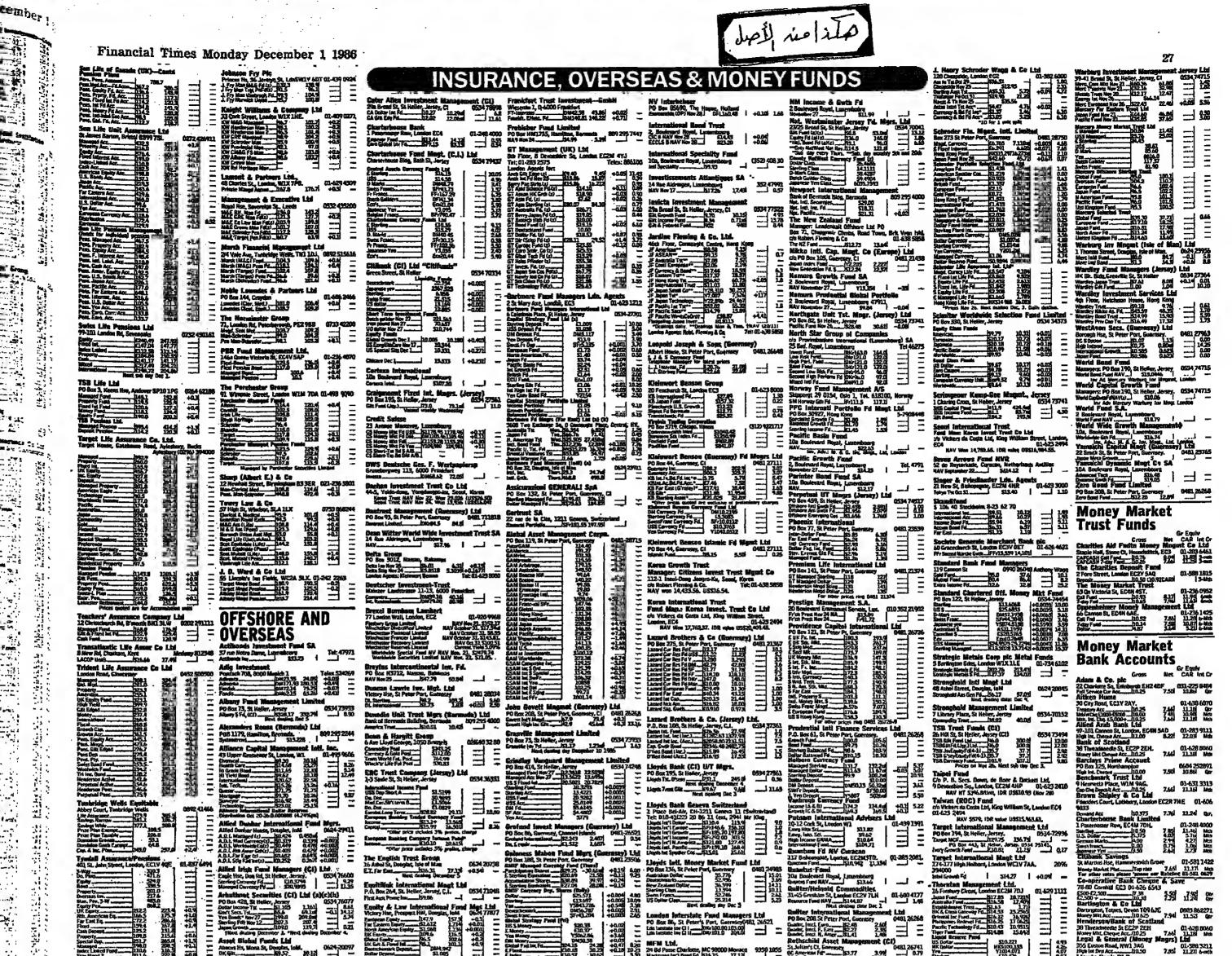


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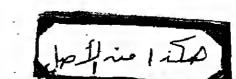
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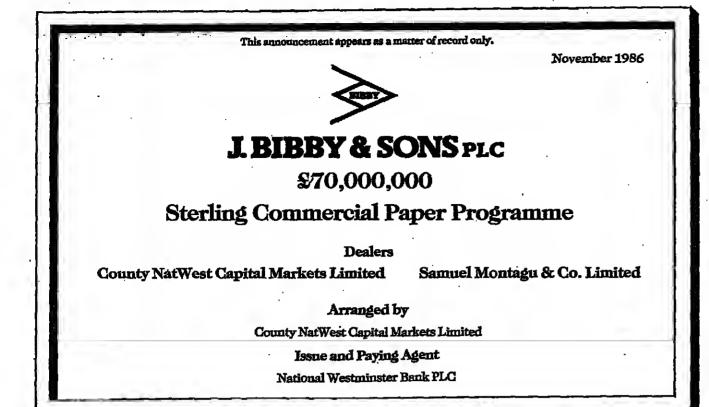
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#### **EURO BROKERS HOLDINGS INC**

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We are pleased to announce that the management buyout of various sections of Euro Brokers Harlow Limited, New York, Toronto & Los Angeles, together with the dollar deposit and capital market operations of Harlow UEDA Savage Ltd, London from MAI plc was completed today.

The London Company will trade as Euro Brokers Limited, the New York and Los Angeles Companies as Euro Brokers Inc, and the Toronto Company as Euro Brokers Canada Limited.

If you would like any further information, please contact David Gladman in London, telephone 01-626 7890, or Brian Clark in New York, telephone 212-938 4800.

Euro Brokers Inc Euro Brokers Ltd One World Trade Center Adelaide House Suite 3111 5th Floor London Bridge New York London EC4R 9EQ NY 10048

#### GRANV SPONSORED SECURITIES Change Gross Yiald m week div.(p) % P/E 0.4 0.8 11.1 0.3 5.3 7.3 10.0 4.2 1.4 4.6 4.3 2.9 15.7 0.1 10.7 4,669 sa. Brit. Ind. Ord. Ass. Brit. Ind. CULS realizes and Rhode 135 147 38× 64 206 92 136 107 Armitaga and Rhodes 2.2 2.2 4.7 2.1 14.7 3.5 11.5 15.2 23.4 10.9 0.8 12|0|1||||| |++++ 5,299 65,223 5,074 1,336 10,477 651 3,178 1,661 3,618 12,268 CCL Ordinary CCL 11pc Conv. Pret. ... 12.5 | | 2.3 8.4 8.0 10.2 | 258xd 93 22 42 Frederick Parker Group Ind. Precision Cestings 90 94xd 6.7 11.9 3.0 18.3 6.1 17.0 12.9 14.1 + 13 4,8 4.7 13.9 127xd 363 93 780 370 87 87 87 87 87 87 80 101 80 105 83 0,614 50,850 3,257 80,822 8,610 2,349 867 1,710 3,222 1,541 16,000 James Burrough ..... Janes Burrouga o p. ..... Multihouse NY (Amst8E) ...... Record Ridgway Ordinary ... Record Ridgway 10pc Pref. ... 40,9 6.0 -++1 10.2 Ridgway Ridgway 3.7 8.0 7.1 14.7 5.7 7.9 2.8 5.0 17.4 5.6 4.3 2.3 3.5 4.9 6.0 + 6 ----9.7 19.0 13.3 26,186 4,574 3,943 Waiter Alexander W. S. Yestes W. Yorks Jod. Hosp. -1 Grazville Davies Coleman Limited 27 Lovat Lane, London EC3R 8DT Telephone 01-621 1212 Member of the Stock Exchange Granville & Co, Limited 8 Lovat Lane, London EC3R 8BP Telephone 01-621 1212 Member of FIMBRA

#### CONSTRUCTION Shanc Committed **Crossing the Bosporus**

BY JOAN GRAY, CONSTRUCTION CORR

The giant French construc-tion company BOUYGUES is studying the possibility of building a £321m (FFr 3hn) road and rail tunnel under the Bosporns, the straits which divide the European and Asian halves of Turkey's capital Istanbul. The tunnel would be the first ever below the straits. Bouygues has agreed to com-plete a feasibility study of the project by Beeember 15. Details of the project will then be discussed by the com-pany and municipal officials, said Mr Atanur Oguz, Istan-bul's municipal secretary general.

bui's Enumery and the tunnel general. If it went ahead, the tunnel would provide a third Bosporus crossing to supplement the existing overloaded suspension bridge and the second bridge which is still only under construction but is pre-dicted to become overloaded

bridge which is still only inder construction but is pre-dicted to become overloaded in the early 1990s. The municipality of Istan-bul has already discussed tho possibility of a third Bosporus crossing—another bridge in this case—with the British contractor Trafalgar House, the runner-up in the bidding to build the second bridge. Trafalgar House has formed a partnership with the Turk-ish contractor Enka to bid for building a third Bosporus bridge—at an estimated cost of £268m—early in the 1990s. Sinco their proposal was said to have been "favour-ably recoived" by the Turk-ish government and "accepted in principle" by the Istaa-bal municipality, the Bouy-gues feasibility study came as

The Istanbol municipality's announcement of its contract with Trafalgar has already caused the company consider-able embarrassment as the scheme was only in its car-liest stages and the company wanted to keep its idea secret from potential rivals. Now the Bouygnes tunnel --which would include a six-lane road and two fast-tram tracks--is the first competing scheme for a third crossing to be made public. Bouygues would be asked to bear the construction costs gues feasibility study came as some surprise. bear the construction costs and recover its expenses from

£36m order for Gleeson

M. J. GLEESON GROUP has won contracts in the north and south totalling more than \$36m. Two road building pro-iects for the Department of Transport, the A303 et Thruxton in Hampshire to Amesbury in Wiltshire, (9.6 kms) and the Cattral Electricity Generating value of £12.5m. At Roadford, Devon, for the 520th West Weter Authority, Gleeson has started viaduct contract prior to the award of the new Roadford Roservoir which will imundate the existing road. Also in tha



BALFOUR BEATTY BUILDING has been awarded four further contracts by British Airways, for whom the company has been whom the traction of the tract



to Construction

Financial Times Monday December 1 1986

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Koad plan WATES CONSTRUCTION (LONDON) has secured orders worth over £24m. All are in the private sector and include retail, commercial and residential work. The largest, valued at £11.3m, is the management contract for construction of a mixed com-mercial and residential project at the junction of Crosswell Road and Earls Court Road. This includes encavation of a road to construct an underground car park, reinstatement of the road and the construction of a bridge block over the road. The com-mercial element comprises 30,000 sq ft offices and a banking hall and the residential development includes 79 fats in two blocks with three penthouses and 10 town bouses. Tho development is being undertaken by Wates Built Homes in conjunction with Parkridge Investment. At the junction of St Martin's Lone and Charing Cross Boad a contract valued at around £45m is to build two office blocks for CEMP Properties (UK). One of the blocks is totally new while the other is to be rebuilt behind a retained facade. To the City the contract for National Mutual Life Assurance Scolety covers demolition and erection of sin-storey offices in a link block and refurbishment of offices at Windsor House, 29 King Street, ECA.

marinal weeks has a reast the set of the superstore. In addition to the usual sales hall, preparation, storage and administrative areas there will be e restaurant and surface car parking.

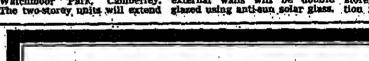
for contracts worth a total of for contracts worth a total of fin and in Grimsby the com-pany is constructing new Crown Courts for the PSA valued et f2.9m. Two recently acquired com-panies — Powerminster in the TANDATA has been awarded Phase I of the renovation con-tract at London's Grosvenor Hotel. Worth £325,000. Phase I comprises alternations to form 11 bedrooms, and ancillary works.

\* CRITTALL WINDOWS, a mem-ber of the Norcros Group, has wan its largest single order for £1.4m worth of Luminair alu-minium windows. The contract involves manufacturing windowa and supplying glass and glazing for South Glamorgan County Council's new county hall, under construction in the dockland area of Cardeff. The building, costof Cardiff. The building, cost-ing around £24m will have fiva storeys, and is due for comple-tion in May 1988.



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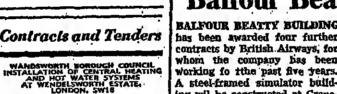
PTION TO HOLDERS OF



The Istanbul municipality's tolls on the route before hand toils on the route before hand-ing it over to the Turks, said Mr Ogur. Trafaigar and its Cleveland Bridge subsidiary were benten in the bidding for the second Bosporus bridge by a con-sortium of Japanese, Turkish and Italian companies. The Languese bid of 2551m

TURSET

The Japanese bid of \$551m (£456m) for the single-span bridge and approach roads was far below the \$676m bid Was far below the soron but by the Trafalgar consortium. It was also backed by a substantial—and controversial —aid package, which the UK government could not match.



A steel-framed simulator building wil be constructed at Cranewishing to be considered for tender for the installation of gas-fired ball

bank Hounslow, under a £2.6m

# voir et Dunblana for Central Scotland Water Development Board. Refurbishment and new build housing for local authori-ties and housing associations throughout the north accounts for contracts worth a total of



### HongkongBank Ltd

is changing its name to **James Capel Bankers Ltd** 

7 Devonshire Square London EC2M 4HN Tel: 01-626 0566

 $(\mathbf{x})$ member: HongkongBank group

	of individual gas-fired bollers servi-d radiators and domestic bot water systems	contract for completion by		NOTICE OF REDEMPTION	TO HOI DEPS OF
	of individual sas-need bollers zervical radiators and somestic hot water systems to 252 occupied farm at Wendels-north Estate. London. SW16, should submit, names to the Director to Administration Room 111. Tominia by 22nd December 1986, guottag rolerence DH/J.	November 1987. At Speedbird			
	Room 111, Town Hall, Wandsworth High Street, SW18 2PU, by 22nd December 1985, guoting relevance DHI3.	House, Heathrow Airport, altera- tions are underway to computer	ł 📕	INDUSTRIAL BANK OF	FINLAND LTD
	The work will involve the removal of	due for completion in February			
	The work will involve the removal of redundant equipment together with still associated builders' work and electrical work.	1987. At the Runway Restaurant,		Kuwaiti Dinars 6,0	00,000
	Applicants must provide the following	also at Heathrow, rofurbishment, redecoration and repairs are		7 <sup>1</sup> / <sub>2</sub> per cent. Guaranteed N	
	(a) details of labour force and technical and supervisory staff available;	underway to the catoring fecili-			043 440 1707
	(0) names and addresses of three tech- nical and two financial referees and the names of the Company's Bankers;	tios which include work on the beating and electrical installa-		Sixth Mandatory Redemption Due 15th January, 1	987 Of Kuwaiti Diners 900,000
	(c) details of stollar heating work under- taken by the firm during the last three	tions. The £322,000 contract will be completed by the year end.	} • 🔡	NOTICE IS HEREBY GIVEN that, pursuant to the	
	years: (d) copies of the Company's audited accounts for the last two years; and	At Torminal 1, altorations and		mentioned issue, Kuwait Investment Company (S.A.K	.), as Fiscal Agent, has drawn by l
	(e) the Company's policy documents;	engineering service building to	1	for redemption on 15th January, 1987, at 100% of the operation of the Sinking Fund, Kuwaiti Dinars 900,000	e principal amount thereof throu
	(a) the Company's policy documental procedures relating to alte safety in line with the Health and Safety at Work etc. Act, 1974.	form a fleet maintenance facility will be carried out requiring	1	due 15th January, 1989, bearing the following distinct	we numbers:
	Work etc. AC, 1974. (N.B. Applications should refer only to the above-mentioned Schenes, and must not incornerate realist to other advertise- mants placed by Wandsworth Borough contail. Late applications will not be considered.)	work to the mochanical and	} ·	00528-00547 02292-02325	03927-03972
1	mants placed by Wandsworth Borough Council, Late applications will not be	electrical installetions addition- ally. A contract valued at £1.65m	}	00631-00651 02468-02498	04013-04040
	to is anticipated that specifications and		1	00792-00825 02576-02618 01047-01072 02911-02955	04491-04 <i>5</i> 24 04701-04744
	It is anticipated that specifications and drawings will be issued to selected con- tractors in February 1967 and that the costract will compense in May 1987.	Canal and Business Park Develop- ment Corporation on land form-	1 ·	01220-01249 03218-03271	05771-05801
	The engineering consultancy services for	ing part of the dockyard area of	1	01443-01481 03360-03405	05827-05849
	Harding McDermott and Partners. Skyline House, 200 Union Street, London SET	the Manchester Ship Canal for construction of three single-	ŀ	01841-01883 03576-03606	05875-05910
	Collinate woil consistent in way tool: The scheme will be provided by Messar, Harding McDermott and Partment. Sivilne House, 200 When Street, London String House, 200 When Street, London SW18 Shousett Director of Housing, Town Hall, wandaworth High Street, London SW18 201	storey industrial units and three		02080-02125 03722-03778	05943-06000
	2PU. G. K. JONES. Elirector of Administration	will be completed by mid-April		The Notes specified above will become due and pay of Kuwait Investment Company (S.A.K.), Mubarak	able in Kuwaiti Dinars at the offic
	Director of Administration	1987. The company has been awarded a £6.392m contract by		of Kuwait, or, at the option of the bearer, but subject	to applicable laws and remistion
		*		at Chibank, N.A., 336 Strand, London WC2R	1HB and at Kredictbank S
	CCOTI AND	G. PERCY TRENTHAM, Pang-		Lutembourgeoise, 43 Boulevard Royal, Lutembourg,	by cheque drawn on a Kuwaiti Dir
	JUUILAND	bourne, has won contracts worth over £17m including the refur-	1.0	account with, or by a transfer to a Knwaiti Dinar account in Kuwait. From, and after, 15th January, 1987, interes	ton the above mentioned Notes
	A Financial Times Survey	bishment of an botel in London; construction of high-tecb units		cease to accrue.	e de la noore menhonen 1400es w
	The Financial Times proposes to publish a Survey on the	in Newbury; and a four-storey		Notes should be surrendered for payment toge	ther with all unmatured coupo
5	above ou Tuesday December 16 1986	office block on Putney Hill. Less conventional jobs in a mixed		appertaining thereto, failing which the face value of the	missing unmatured coupons will
	For further information,	"portfolio" of now work include		deducted from the principal amount. The aggregate principal amount of Notes remaining of	wither first first to a second
	KENNETH SWAN	Abingdon into offices, the crea-		will be Kuwaiti Dinars 1,800,000.	Austanting aner 1510 January, 194
	Financial Times	tion of offices in o former manu- facturing complex for Michelin,			
	37 George Street Edinburgh EH2 2HN	and the superstructure of the		KTIWATT INVESTMENT	COMPANY (S.A.K.) on behalf
	Telephone: 031-226 4139	Towngate Theatro, Basildon.		INDUSTRIAL BANK OF H	INLAND LTD.
	FINANCIAL TIMES EUROPE'S BUSINESS	The Departmont of Transport			
	NEWSPAPER	bas awarded BALFOUR BEATTY CONSTRUCTION the A303 South		Dated: 1st December, 1986	
		Petherton-Broadway (Ilminster			
	· · · · · · · · · · · · · · · · · · ·	Bypass) contract, valued at £12.85m. This involves construc-		والمساقية والمستخد المباشية كفالم بشميها كالتكار المعاد	
-		tion of 14 kms of 12 metre wide single carriageway in rigid con-			
LEN	DING RATES	struction, nine bridges, two roundabouts, flood alieviation			
Chilbrent, M.A.	% % 	neasures and earthworks involv-			
Chilbank NA	ms 12.45 Mat Credit Corp. Ltd 11	ing excavation of about 900,000 ru metres. Work starts in		·	
City Merchan Cyclestale B		January for completion by April	·		
Consolidated			ſ.		1 PAR
Co-operative	Bask *11 Norwich Gen. Trest 11	To the Bolders of		World	A FINANCIAL T CONFERENCE
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Exeter Trest Financial & G	Lad 11% Royal Ba of Scotland 11	Secured Adjustable Rate Notes due 1994		Pulp & Paper	Foring
First fag. Fie	. Corp 1112 Standard Chartered 11	Notes, solice is hereby given that for the		H. STATA AN IN AN AND AND	For information please return the adventisement, together with yo
First Nat. Se Robert Fiemi		In accordance with the provisions of the Notes, atotice is hereby given that for the Interest Period beginning on and including November 28, 1986 and ending on and in- cluding February 26, 1987, the Notes will mercure interest Period 56 600 mercures	. (	The same from the same	LOSKINGS CHID, IC.
	r & Ptrs., 12. United Bit of Knowlit, 11. nk	carry an interest route of 0.30% per annutt.		Conference	Financial Times
Coloness Mai	tos	For the Interest Payment Date on February 27, 1986, interest payable per 550,000 principal amount of the Notes will be \$810,27.			Conference Organisat Minster House, Arthur Street,
HEFC Trest & Hambro Band	Yorichize Back 11	A. F. I. Atlantic Financial		44 8 40 De sember 4000	LOTUDO EC4R SAX
Heritable & G Hill Samuel _		International N.V. By: Paribas Corporation		11 & 12 December 1986,	Alternatively, telephone 01-621 1355
C. Hoare & C	11 deposits 6./9% 1-month 7.03%	Date: November 24, 1986		London	telex 2/347 FTCONEC
Knowsley & C					fax 01-623 8814
Licycls Bank . Maet Westpa	List 11 6L% gross 1 Morinane base rate	I.G. INDEX			
Neglez j & S	estiline 11 § Desanti deposit 6.69%	FT for December			

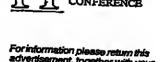
First National Securities Ltd. First National Management Ltd. announce that with effect from 1st December 1986 the Home Loan rate will be 121/496 First National House, College Road, Harrow, Midda, HA1 1FB

Adam & Company	Cititanik Sarings 112.45
Allied Arab Bk 1td	City Merchants Sank 11
Allied Dunbar & Co 11	Chydesitale Bank 11
Allerd Irish Bant 11	Comm. Bk. N. East 11
American Exp. 6k 11.	Consolidated Cred II
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State Credit & Comm 11	First Mat, Fis. Corp 1112
Bank of Cypres	First Nat. Sec. Ltd 112
Berk of Ireland	· Robert Fleming & Co 11
Bank of India 11	Robert Frater & Pirs 12
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1,283-1,290 (unchgd) Tel: 01-828 5699



For information please return this adventisement, together with your business card, to: **Conference** Organisation Minster House, Arthur Street, London EC4R 9AX. Alternatively, telephone 01-621 1355 telex 27347 FTCONF G fax 01-623 8814

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#### Financial Times Monday December 1 1286 · · ·

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### **WORLD STOCK MARKETS**

	Financial Times Monda	y December 1 1286					31
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<b>*</b>	6,850 4,760 Gevent 5 Sant. 5,900 6,150 5,700 Hobokeb 7,640 3,995 4,880 Intercom 3,630	2,776 1,480 Matra S.A	6.19 2.0 Elders XL	9,650 1,200 Green Cross	31252 Bow Valy \$131, 13 131, +1, 182254 Dome Pete 4100 Brakome 120 115 115 3 825 D Textile 2009 Bramales \$221, 221, 221, \$334 Domtar 9851 Brascen A \$253, 251, 255, 256, +1, 1100 Du Pont A	516         514         10         + 3         232700         Mi Trusco         513         13	5 - 18 2857 Texaco Cam 5301, 30 30 + 18 18975 Thom N A 530 283, 30 + 11, + 18 55078 Tor Dm Bik 523 223, 227, 4 40 Tor Sum 52879 287, 227, 7 + 18 7500 Torstar 8 \$273, 27 273, 5 + 14 100 Total Pet \$3273, 27 273, 5 + 14 100 Total Pet \$3273, 27 273,
	4,450 2,430 (Kredietbank	3,585         9,6401_egrand         5,320           350         169         Malsons Phenix         200,8           2,776         1,4301Matra S.A.         2,476           3,665         1,725.Michelin B         24,75           6,690         1,435.Michelin B         24,76           1,436.Midi (Cie)         12,690         3,665           2,660         1,435.Michelin B         24,890           3,665         1,725.Michelin B         24,800           116         54.7.Moulloax         83           241         156.1.Nord East         183           1,265         807         Pernod Ricard         1,1040           345         481         Perrier         805           479,2         296         Petroles Fra.         402	9.7 1.55 Hartogen Energy 2.4 8.2 4.85 Herald WyTimes 8.2 2.92 8.19 7Cl Aust	1,400 339,40045,	17300         Brkwater         485         485         +16         74550         Dyfes Å           35675         BC ForP         \$1412         1414         1412         +16         65512         Echo Bay           27561         BC Free         123         121         127         -2         400         Enters           13602         BC Free         123         121         127         -2         400         Enters           13602         BC Free         \$273         2749         2714         32800         Equity Sw           65800         Brunnswit         \$123         124         142         +18         200         FCA Ind	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	10 107 300 107 3273 27 273 1 + 10 17300 107312 8 1 3273 27 273 1 + 1 100 1012 Per \$2412 2412 2413 400 1724 Per \$2412 412 1 400 1724 Per \$2412 412 1 400 1724 Per \$25 75 75 -1 1 1002 1722 1724 PA \$15 15 15 1 1002 1724 PA \$15 15 15 1 1000 PA \$15
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WATER AND	2,060 5,300 UCB	1,350 612 Paugeot 8.A,1,165 738 417 Printemps (Au.L.) 558 1,080 421 Radiotech	10.6 5.74 Lend Lease	3.070         888 Fullsawa         1,476           1,140         825 Fullsawa         1,476           1,140         825 Fullsawa         1,100           610         824 F'Jrukawa Elect.         556           1,320         794 Helwa Real Est.         1,266           1,330         760 Hitachi         1,260           9,550         1,150 Hitachi         1,260           1,400         938 Honds         1,260           2,650         1,000 Hitachi         1,260           2,620         1,000 Hitachi         1,260           2,620         1,000 Hitachi         1,260           2,620         1,000 Hitachi         1,260           2,620         1,000 Hitachi         1,260           3,00         1,000 Hitachi         1,260           4,10         310 Isuru Motor         326           942         4,15 Itoh (C)         766           1,600         463 Kajima         1,240           1,600         463 Kajima         1,240           1,600         463 Kajima         1,240           1,600         463 Kajima         1,240           1,740         986 Kao Corp         1,570           377 Kirin <td< td=""><td>27360         9C         Res         121         127         -2         400         Encodry           13602         BC         Phone         5277         274         274         32800         Encodry         Sw           65000         Brunswit         S123         123         124         +15         200         FcA Ind           1204251         CAL         S107         978         16         846869         Fcanbrdg           1500         CCL         6         S155         15         155         +14         200         Fcd Ind         A           2700         CIL         S257         2514         255         +14         200         Fcd Pion           3000         Cad Frv         S3012         252         2214         224         225         +14         200         Fcd Pion           3000         Cad Frv         S3012         527         2274         223         Fcd Ind A         5334         Camp Ris         528         277         237         3         500         Gandali           1007         Camp Ris         528         277         274         43         5000         Gandali         50500         Gandali</td><td><math display="block">\begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td>5 4</td></td<>	27360         9C         Res         121         127         -2         400         Encodry           13602         BC         Phone         5277         274         274         32800         Encodry         Sw           65000         Brunswit         S123         123         124         +15         200         FcA Ind           1204251         CAL         S107         978         16         846869         Fcanbrdg           1500         CCL         6         S155         15         155         +14         200         Fcd Ind         A           2700         CIL         S257         2514         255         +14         200         Fcd Pion           3000         Cad Frv         S3012         252         2214         224         225         +14         200         Fcd Pion           3000         Cad Frv         S3012         527         2274         223         Fcd Ind A         5334         Camp Ris         528         277         237         3         500         Gandali           1007         Camp Ris         528         277         274         43         5000         Gandali         50500         Gandali	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5 4
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	570 510 Baltica Skand 640 348 235 Cop Handelabink 248 470 318 D. Bukkerfab 347 381 959 Danske Bank 294 960 160 feat Aleast	1986 Nov, 28 Price High Low Fis	3.95 2.27 Pacific Juniop, 5.25 3.4 1.7 Pancontinental., 2.57 5.15 9.46 Pionaer Conc 2.7 6.18 9.00 Piacer Pacific 9.5	500 5.11 Nyosera	1575         C. Packers         \$151,         155,         155,         16         4800         GuarPA 1           1122         Can Trust         S31         501,         501,         12         19431         Guil Can           1         CG Invest         S551,         551,         551,         551,         120         Hawfort           67329         CI Bix Cont         820,         19,         20         1384         Hayses 0	51659         16'4 <th16'4< th="">         16'4         16'4         <th< td=""><td>4 +3 500 Bombrdr A \$147, 145, 147, +1, 1 25354 Bombrdr B 5137, 131, 131, -1, 831 CB Patk 5199, 183, 193, 193, 193, 193, 193, 193, 193, 193, 193,</td></th<></th16'4<>	4 +3 500 Bombrdr A \$147, 145, 147, +1, 1 25354 Bombrdr B 5137, 131, 131, -1, 831 CB Patk 5199, 183, 193, 193, 193, 193, 193, 193, 193, 193, 193,
2	570         510         Baitiga Sigand         640           348         235         Cop Handelsb'nk 248         470         318         D. Bukkerfab	58 44,9 AOF Holding	5.8 2,09 Poseidon	9,960. 1,540 Marul	2946       Algoma St       312       113, 12       117.3       Coseka R         68501       Asamera       501, 450 l1       177, 74, 74, -16       2360       Costain Ltd         7974       Alton l1       577, 74, 74, -16       2336       Costain Ltd         2314       BC Sugar A \$157, 74, 74, -16       2336       Corwark A 1         3005       Banister C       \$85, 91, 92, 234, -19       2300       Costain A 1         2301       Banister C       \$85, 91, 93, 257, 234, -19       2300       Denison A p         2303       Banister C       \$85, 91, 93, 257, 337, 357, 357, 357, 357, 357, 357, 3	3134         133200         Nummer         S812         637         215 <td< td=""><td>14 + 1 400 CIL \$2512 20 2512 +78 25168 ConBath \$251 28 28 -1</td></td<>	14 + 1 400 CIL \$2512 20 2512 +78 25168 ConBath \$251 28 28 -1
	845 465 Jyske Bank	181.9: 140.1.4KZD	6.8 3.95 Smith (Howard). 4.4 4.16 2.18 TNT. 3.8 6.7 5.9 Tooth. 5.8 6.1 1.85 Vamgas. 2.8 6.6 9.82 Wastern Mining. 4.78	439 555 MH	1800 Capron & 5145 141 145 +1 6900 indel	25150 Ranger Skie Sta St	$+321_2$ 23036 Noverco 3135 1314 1314 -18 +18 173932 Power Corp \$1538 16 16 -14
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	688 515 Bayer-Hypo	35,8 44 KLM	1985 Nov. 28 Price High Low 2	1,420' 560 Nippon Express.J.,160 9,220' 1,350 Nippon Gakki. 3,600 1,200' 801 Hippon Kogaku. 879 336' 128 Nippon Kogaku. 879	<b>OVER-THE-COUNTE</b>	R Nasdaq national market, closing pric	ez, November 28
:	348 239.5 Brown Bovert 295 377.5 958 Commerzbank 329.5 363.8 203 Contri Cummi 353.9	95.5 187.5 Ned Mid Bank 211 219.9 159.Dived Mid Bank 211 519.9 159.Dived Hoyd	1.54 D.66 Boustand Hidgs. 1.5 4.09 9.17 Cold Storage	1,560 758 Nippon Shimpan 1,950 971 154 Nippon Steel	Stock Sales High Low Last Ching Stock Sale [Hinds] (Him	ns High Low Last Ching Stock Sales High Low Las rts) ; (Hods)	st Chong Stock Sales High Low Last Chong Hinds)
	1,549,5 1,105 Daimler-Benz	69.5 30,4 Ommeren (Van) 35,7 99.5 60,0 Pakhoed	9.75 4.4 DBS 8.5 5.1 3.3 Genting 8.5 5.32 1.64 Haw Par, Bros. 9.86 3.26 1.74 Nong Leong Fin. 9.86 3.12 1.03 Inchcape Bhd. 9.59 5.04 0.4 Keppel Corp. 2.70	6061 295 Hippon Yusen	I COMPANIED ITOM Page 33 Prostoria 40 40		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	506 363.30rezinar Bahk 420 343 967 Feld Muehle 999.3 504 560 Menkel	142.1 132.9 Rodamco	5.53 3.04 Malay Banidng 4.78 1.69 0.98 Malay Utol Incl. 1 36 0.8 D.50 Multi Pyrpose. D.56 9.48 5.85 OCEC. 8.8 5.68 9.19 OUB	874;         634 Nisshin Flour	PaiFSB         46         191, 18         191, 151, 151, 34         RochCS         522           Parfam         20         32         5254, 25344, 2534, 2534, 2534, 2534, 2534, 2534, 2534, 2534, 2534, 2534, 25	15 1814 18 1814 + 14 Subarus 38 13 1043 2334 2314 2 163 512 d 414 512 + 34 Subarus 12 17 199 7934 18 1	
	504         500         710         Henkter         492,5           500         710         Hockter         1000         627         940         Hockter         967,5           861         121         Hoesch Worke         195,5         660         470         Holzmann (P)         621           269,61         163         Hortan         265         660         456         Hussel         653           320         218         Kantadt         520         520         520	39.3 96.5 VMF Stork 28.4 356.5 270.5 VNU 345 84.8f 69.7 Wessensn 85.3 108.5i 45.7 Wessensn 60	1.78 D.80 Public Bank 1.26 1.97 0.82 Sime Darby 1.90 9.9 5.55 Singapore Air 2.05 8.85 5.5 Singapore Press. 8.10	2,480 1,650-Pioneer 2,370 1,166 755/Ricoh	Payers 41 537 223 221 221 1		Big         1s         Unitation         25         45         301         287         297           S         Unitation         25         45         301         302         1         4           S         Unitation         25         45         301         302         1         + 14           S         Unitation         18         262         2012         30         307         + 14           Unitation         18         262         2012         30         307         + 14           Unitation         18         262         2012         30         307         + 14
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1	7356 548 .Hixdori	2,2851 1,540;Brown Boy371,, 1,790 4,550; 9,775;Ciba Geigy,	5.00 1.8 Aborcom 2.7 16 8.90 AFACL 14.6 95 53 Allied Tech 86 60.50 28.76 Anglo Am Coal 35.5 74 37 Anglo Am Corp. 67.5 80 206 Anglo Am Cod 336	1,930, 840 S'tomo Elect,1,770	PionEp         A0         23         66         251         241         242         34         SattMus         75         14           PionEp         A0         23         66         251,         241,         242,         34         SattMus         75         14           PionEp         A1         43         564         225,         201,         322,         +13,         ScanTra         27         4           PicoNay         27         338         224,         212,         223,         14         Scherrer         32         10           PicoNay         27         338         224,         212,         223,         14         Scherrer         32         10           PicoNay         27         338         224,         212,         223,         14         Scherrer         32         10           Portex         30         18         275,         275,         275,         14         Scherrer         32         17           Portex         30         18         275,         275,         14,         Scherrer         32         17         34         15         34         34         34         15         2	12         27.3         27.8         76         Tandem         28         143.4         381.2         373.3         3           16         616         57.6         5         Tandem         28         143.4         381.2         373.4         3           15         10         83.4         93.4         Tandom         2067         33.8         3         3           15         15         14.4         15         15.1         14.14         15         15         15         14.14         10.4         10.5         11         13.5         15         15         15         14.14         15         15.14         14.14         10.4         10.5         12.2         10.4         10.5         11         10.1         10.5         10.1         10.5         10.1         10.5         11.14         10.4         10.5         12.2         25	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
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) (*	385          305 ASEA  Free)         348           580i         370 Astra (Free)         558           259i         166 Atlas Copco         178	8,778; 6,750;Zurierh Ins 8,475	11.5 9.0 Sago Hidgs 9.6 15.6 , 8.2 SA Braws 15 38.3 94 Smith 1CG 29	340 200 UBE Inde. 970 3 260 1,490 Victor 2,800 776 605 Yamaha 643	Proster 24 12 26 2 91 91 14 2 30 54 Prot. 16 24 8 53 247 245 245 15 30 54 Prot. 16 24 8 53 247 245 245 15 30 54 Prot. 16 24 8 53 247 245 245 15 30 54 Prot. 16 24 8 53 247 245 245 15 30 54 Prot. 16 24 8 10 107 23 224 23 50 30 10 18 50 Prot. 16 24 10 107 23 224 23 50 30 10 18 50 Prot. 16 24 10 107 23 224 23 50 30 10 18 50 Prot. 16 24 10 107 23 224 23 50 30 10 18 50 Prot. 16 24 10 107 23 224 23 50 30 10 18 50 Prot. 16 24 10 107 23 23 30 30 10 18 50 Prot. 16 24 10 107 23 24 23 50 10 10 10 10 10 10 10 10 10 10 10 10 10	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

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E EQUERE	CANADA TORONTO Hov. Nov. Nov. Nov. 1996 28 87 96 25 24 High , Low	SWEDEN Jacobson & P (51/12/55) 2500.07 2521.70 2514.15 2500.24 2672.78 (7/11) 1729.57 (28/1)		
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	NEW YORK ACTIVE STOCKS         Change         Change           Change         Change           Friday         Stocks         Clasing on         Stocke         Clasing on           Traded         price day         1,314,400         2113         "1           Ohio Edison         3.930,000         20%        4         USX	**Serurday November 29: Japan Hikkei 18,325.5. TSE 1,488.87. Base value of all indicas are 100 except Brussels SE-1,000, JSE Gold- 255.7, JSE Industria-254.3, and Australia. All Ordiesry and Metals-500. NYSE All Common-50: Standard and Pópra-20: and Montreal Portfolie and Marais-1,000. Toronto Indicas based 1975 and Montreal Portfolie 4/1/83. † Excluding bonds. \$ 400 industrials plus 40 Utilities. 40 Financials and 20 Transports. 6 Closed, a Unavailable.		

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NEW YORK STOCK EXCHANGE COMPOSITE CLOSING PRICES Closing prices, November 28 12 Manda Higa Lau 1974 95 2774 9 3774 95 377 229 957 229 377 229 11414 777 1454 97 1154 17 154 57 1574 5 Sinck Bit. Genow vid Gernit 133% GACort.506 GALW 3.516 GCAM 2356 GALW 356 GALW 356 GALW 356 GALW 456 GALW 1772 1473 754 3574 3574 1043 High 181, 124, 131, 131, - SUCR. Morron pE Morros n. Morros A. Mo ិង ស៊ីង ខេត្ត ទំនាំមិនទំនាំ បាន សំរឹង ទំនាំ នាំ ទំនាំ ទំនា 85434 8 1 5 5 5 8 2 5 5 8 7 1 8 8 7 4 2 8429998668822822 Cntrikt: Craig Crans 1 CrayFis CrasFis Eseißรัสพี่แข้ธรึกยัสขัสชิกรรลิที่สุขวิจิตสัวสัสที่หลิดสิลลิลิลัลัสสรีก็แข้วีแข้วเรียรสัตรัวรัตรีจัตรีลิสิตรีลิส 222222282228222822282282282 450 55 2 92 2 85 5 80 1 80 85 5 19 តិនេទីអ៊ីសីសទីនិនាភូនិតិតិទីភូនិតិតិទីទីកំពុំតំទឹកទីទី 8.9 10 8.7 8.9 9.0 2.4 20 4.4 17 2.8 19 6.2 8 4.5 15 3 30 163 133 5 5 18 15 D 10 4 12 12 12 18028825.40 5.822289222,2338 148523553593888885.4385455749448688998884488789 253232 3523 3.3 87 3.9 16 38 395 167 41 30 59 N 14 107 53 15 207 D D 1.6 2.1 3.6 2L 1.7 9.4 DCNY 2 DPL 2 Dates .6 2 Demon20 2 Deter ส์สิบอริบังผิดอล์ชีลีบังหลิงก็เสลี่ย์และอิลิลิล នំភ្លើម៉ាំងទី៩៩៩៩៩ន៍នំអើនវិវត្តិតិចំនឹងទីនិងគឺនាំក្នុងក្នុងនឹងនឹងកើតន័យ។កិច្ចខ្ញុំស្ថិតកើតកើតមិនដែលនេះ និងកំនិន និងកំពុងខ្លែងការបាន និងកំពុងនេះ និងកំពុងនឹងកំពុងក្នុងនឹងកំពុងនឹងកើតន័យ។កិច្ចខ្ញុំស្ថិតកើតកើតខ្លាំងខ្លាំងខ្លាំងន มิคณอริวัยชม*ิรัสที่รัฐอิส*ภิริจัสภิริจุธอร์สธิริจิลิ .40 .44 .58 .28 .28 .16 L 10 186 318 15 5 19 55 14 13 75 4 C 15 4 6 5 5 2 ¥ 51558 + 8228 + 8254 + 845 + 858 + 855 + **๛กษัยให้สิ่งสุดพิธีพิธีส**ารเรียงสุดรีร้องพิธีสารแล้งสิ่งสีสัตร์ เป็นสิ่งสารเรียงสีสารเรียงสีสารเรียงสีสารเรียงสี NBD NBI NCH NCN รักทีลต์สรัต้จริสสีปีกลุธกัสถายกลังจุรักสีสงรักรีธิสรัตร์กลีสสรรรณ์จัสรรรณ์จัลสีรักรกรีกิจรัฐกลีสรรรณ์จลึงสีบลร 303 918 20 213 ទឹង៥អំពីនមថមិអ៊ីទីកំពាំក្នុងដៃពិកក់ដឹងអ៊ីខាអ៊ីកម្មដឹងអ៊ីទីក៏ភ្លើងខ្លាំងទី១៩ក៏គឺអ៊ីចំអ៊ីនឆ្នាំទីអដីអ្វីអ KLM (85 Kmart 1.46 Kmart 1.46 Kmort 1.47 Karce 20 Karce 20 Karce 1.37 Kotyfe 3.4 Kotyfe 3.4 Kotyfe 3.4 Kotyfe 3.4 Kart 2.18 Karl 2.5 Kart 5.5 Kart สีขึ้งรักกะริที่รังพักที่มีสีที่มียังกะมีของออกสีของสีสีออสีที่ข้าเพิ่งของสีสีออสีที่มีที่มีสี่มีสี่ NL ingi 12] NL ingi 2.32 NL ingi 2.32 NEACON S. 50 Naico 1.20 Naico 1.20 Naico 1.20 Naico 1.20 Naite 1.20 Naite 1.20 Noise 2.36 1426 82 110 2128 933 78 777 299 3 2 15 8 4 194 125 33 11 65 28 36 C C 24 14 564 162 11 14 70 8 13 4 - 12 CBI ዀ፟ኯ፝ኯፘቘጜቚዾቘ፟፟፟፟፟፟ጟ፟ቘቔ፞ቘ፝ጚኯጙ፝፝፝ቒ፟፟፝፝ቜቘቔ፟ዸ፟ኇቘቘቔ፝ዸቜቘጜቒቒቜጜዸ፝ቒፚቘቜጞቚዾ፝ቘቘጚቒጜቘፚቘቒቒጜቘፚጟ፟ቚቘቘፚዸጜኯፚቔፚጜኯ፟ቘኇጜጜዸ፝ፚዸቘቜዸ፟ኯቜቘቜኯዄቜ*ቘ*ቜ 3 914 205 110 120 229 240 250 250 250 15 0 ៹៶ភិតិ២- ជុវមិនមន្ត្រីជំនាំព័រខេងខេចក៏ជំនារី រាទ ១៩និងនិងកើតនិងកំនាំព័រជំនឹងមើលផ្លែងនឹងចំខុងពីពិនាំទីចុងសើលដីការកើនទីទំព័ន្ធន៍ទីទត្តនំដឹ១ឲ្យផ្លែងខេត្តទំព័ន 20 20 40 37 3.5 17 9.5 7 9.7 9.2 9.1 11, 11, CiG pi 2737 CiG pi 2737 CiG pi 4.10 CiA Fin CNA Fin CNAI 1.24 CNA Fin CNAI 1.24 CNA Fin CNAI 1.24 CNAI 1.24 CHA Fin CNAI 1.24 CHA Fin CAS 1.10 CFI 6 nc Cabot 32 Cassar Calible 3.177 Calible 3.177 Calible 3.177 Calible 3.177 Calible 3.177 Calible 3.177 Calible 3.25 Capita .28 Calible 3.25 Capita .28 Calible 4.25 Calible 5.20 Cali 
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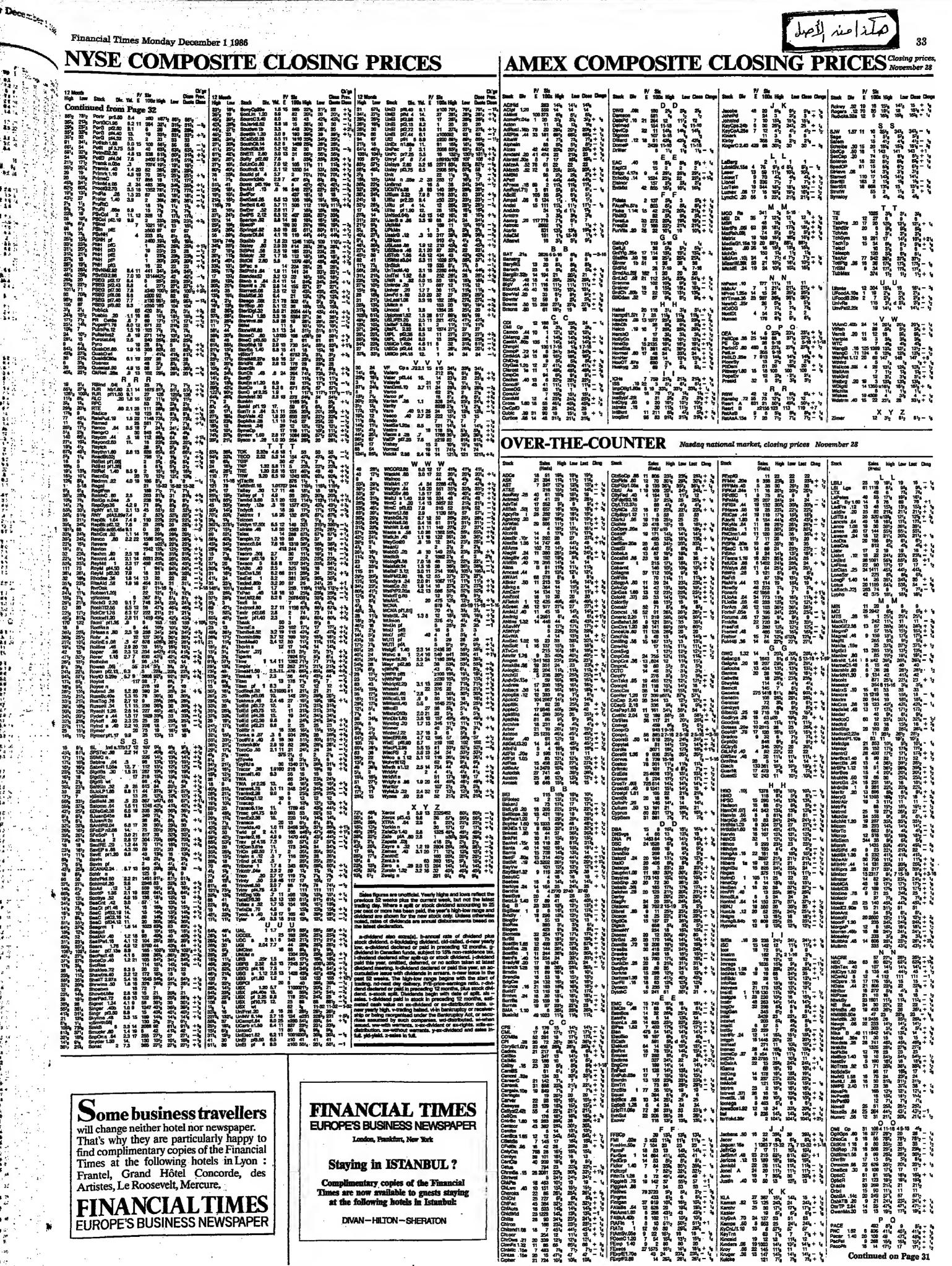
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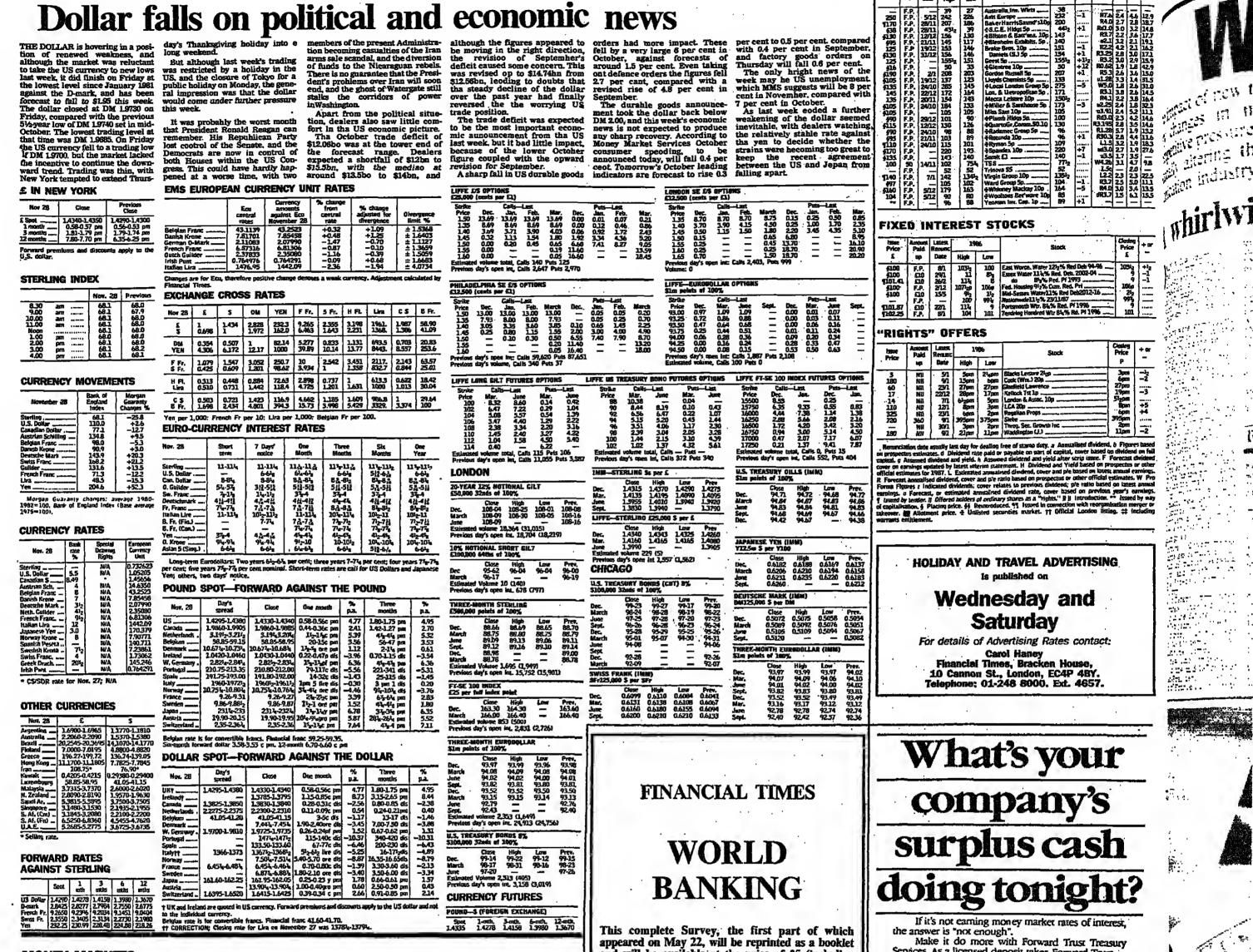
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**Financial Times Monday December 1 1986** 



44.7



**CURRENCIES, MONEY & CAPITAL MARKETS** 

### Dollar falls on political and economic news

Financial Times Monday December 1 1986

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#### EQUITIES

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**MONEY MARKETS** 

34

FOREIGN EXCHANGES

### Tone remains nervous in London

THE STRUCTURE of interest rates Interstances takes on the states takes on the London mocey market coo-tinued to underpin the present 11 per cent level of UK bank base rates, but the underlying tone remained nervous, in spite of another very quiet week. There was little change io market rates throughout November, but this was more a reflection the reasonably steady performance by the pound on the foreign , than any confidence in

the luture. The pound gained over 2 cents against the dollar to \$1.4335, but the fact that they were the first

#### FT LONDON INTERBANK FIXING

ų,

Q1.00 a.m. Nov.28) 3 months U.S. dollars	6 months U.S. dollars	
bid 6 Offer 6 1g	bid 3 12	Offer 6 is

Paris and Morgan Guaranty Trust.

#### BANK OF ENGLAND TREASURY BILL TENDER

	Nov. 28			Nov. 28		_
Bills on offer Total of applications Total allocated Minimum accepted bid	£469m £100m £97.34	£320.3 £100m £97.34	Top accepted rate of discount Average rate of discount Average yield	10.5692%	10.6556%	
Allotment at minimum level	72%	2%				<u> </u>

#### WEEKLY CHANGE IN WORLD INTEREST RATES

LONDON	Nov, 28	change	NEW YORK	Nov. 28	change
Base rates 7 day interbank 3 month interbank 7 reasury Bill 7 ender Band 1 Sills Band 2 Sills	11 11 1 11 1 10.6692 10% 10%	Usch'd +12 +0.0136 Unch'd Upch'd	Prime rates Federal Funds 3 Mith. 7 reasony Bills - 6 Mith. 7 reasony Bills - 3 Mith. C 0	72 553 555 555 555 555 555	Unch'd Unch'd +0.03 +0.01 +0.01
Band 3 Bills Band 4 Bills	10-1 10-1 10-1 10-1 10-1 10-1	Unctr'd Unctr'd Unctr'd Unctr'd 	FRANKFURT Lombard One min. (nerbank Three month PARIS	55 4,525 4,675	Uach'd Uach'd Uach'd Uach'd
70KY0 One months Bills Three months Bills	4.40625 4.34375	Unct'd Unct'd	One min. Interbank	7.00 7½ 7%	+14 +14 +14
ARUSSELS One manifith	71 e 7 <u>1</u> e	ż∓	Milan One month	쁥	3
AMSTERDAM Our month	5% 511	-1	OUOLIN One month	137 143	1

andog-band 1 bits mature in up to 14 days, band 2 bits 15 to 53 days, band 5 bits 54 to 63 days nd band 4 bits 64 to 91 days. Rares quoted represent Bank of England boynog or selling rates with he money market. In other centres rates are generally deputit rates in the domestic money market nd their respective changes during the week.

UK clearing bank base lending rate 11 per cent since October 15 weakened against many other cur-rencies, including the D-Mark to finish the month at DM 2875, equal to its record closing low. Some rather inconclusive econo-mic statistics began with the Octo-ber UK money supply figures earlier this mooth. The figures were dis-torted by the TSB share issue and by torted by the TSB share issue and by to fact that they were the first

IUNET	RAIES	

EW YORK Closeod) rime rate	77 <sub>2</sub> 77	One month	N/A N/A N/A N/A	and Bonds Three year Four year Four year Seven year 10 year	22222
ed. funds		Two year	<b>1/A</b>	10 year	

#### BANK OF ENGLAND TREASURY BILL TENDER

	Nov. 28	Nov. 21		Nov. 28	-
idis on offer	£100m £469m £100m £97,34	£100m £320.3 £100m	Top accepted rate of discount Average rate of discount Average yield Autount on offer at next tander .	10.6692%	10.6692

#### LONDON MONEY RATES

Nov. 28	Over- night	7 days sotice	Month	Three Months	Şix Months	One Year	
Interbank	1212-10	11.5-12.4	11-11	11,2-11.2	117-11%	1112-1	
Sterling COL	_		11,2-1022	пс п	114-10-	11, 1	
Local Authority Deposits	11-107	11&-11	11, 11		na na	11.1	
Local Authority Bonds		-	115	115	111	115	
Discount Market Deposits	11-10	10%	105	10		i	
Company Deposits	11-10%	1124	nz	11,7	11.4 .	113	
Figure House Deposits			1011	115	끖	110	
7 readery Bills (Boy)	Ē	( = )	1011 1011	100			
Bask Oits (Boy)	_	l — '	106	103	1011		
Fine Trade Bills (Boy)		( <u> </u>	1113	1115	1 11.		
Dellar COs	-	I — I	610-6.05	5.95-5.90	11.	5 95-5	
SOR Linked Deposits	-	- 1	6-2-6-2	614-614	612-614	6, - 6	
ECU Linked Deposits		· _	75.7	7.75	7 7	7 7	

Treasury Bills (sell); one-month 10(3) per cent; three-months 10(3) ber cent; Bank Bills (sell); one-month 10(3) per cent; three months 10(3) per cent; Treasury Bills; Average tender rate of discount 10:65/2 p.c. ECGO Freef Finance Schemente V reference date Cotober 8 to 51 (militales); 11.237 per cent. Local Authority and Finance Houses seven dars' notice, others seven days' insed Finance Houses Base Rate 11 per cent from November 1, 1986; Bank Depost Rates for sum, at seven dars' notice 4.35-4.375 per cent. Certificates of Tat Depost (Serrer 64); Depost 100,000 and over held under one month 10% per cent; one-three months 11 per cent, three: six months 114, per cent; six-me months 114, per cent; one-three months 11 per cent, three: six months 114, cent from November 14. Deposits beid under Series 5.104, per cent. Deposits eliterates for cash 52

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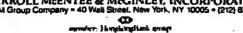
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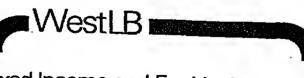
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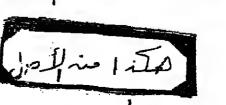
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# **SECTION III** FINANCIAL TIMES SURVEY World Telecommunications

The impact of new technology, coupled with regulatory changes in many countries plus mounting competitive pressures between equipment suppliers is radically altering the shape of the world telecommunication industry.

### A whirlwind of change

NLY A few years ago, the telecommunications industry across the world

presented a somewhat neat and tidy image of a husi-ness which fitted smoothly into tha parameters of a natural monopoly.

monopoly. True, there were complaints In many countries about the quality of service and the delays in hringing new lines into operation. But the task of wiring the world for the telephone seemed one that was ideally adapted to centralised control and nniform management. Today, this certainty over the shape of the industry is being shape of the industry is being swept away as telecommunica-tions throughout the industrialised West heads into a period of painful re-adjustment.

Technology has radically altered tha economics of the industry, both for the providers of service and the manufactur-ers. Users, meanwhile, are equally making new and more testing demands on the telephone providers as their need for more sophisticated com-

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network. Yet, whila installation delays may still be a concern, the issues facing the industry today are very different. They fall broadly into two main areas: what degree of competition should be injected into tha sys-tem on one hand? And how

tem, on one hand? And how should equipment manufacturing be organised, on the other? The first question — the issue of how to introduce competition to tha system — is proving just as difficult to resolve, as the <u>cr</u>itics of change said it would. The problem is relatively straightforward. On the one

By Terry Dodsworth

hand, it may be that competition would, as the reformers claim, generate more responsiveness and innovation in the industry. But on the other, the hasic provision of lines is easiest to

arrange in most cases through a single system; and once that supply is established, it is more simple to channel other services through it in a monopoly organisation, under soma kind or regulation. Indeed, unlike some other industries that are being sub-jected to radical change as new

technologies and new world markets are opened up, tele-communications is irretrievably industry. Ten years ago, the hig question in many countries was' how long it took to persuade the inter-twined with questions of local telephone company to install a new line : indeed, it was only in the mid-1970s that

local telephone company to public policy. install a new line: indeed, it In the early days of the tele-was only in the mid-1970s that phone husiness, governments the then-President Giscard came to see it as a strategic d'Estaing of Franca put his rep-resource. More recently, many

tation on the tine to force countries overtly or tacitly enexpand his country's national cies aimed at putting moderately-priced telephones within the reach of anyona who wanted

Most pricing systems were skewed, through some sort of monitoring or regulatory sys-tem, to allow long-distance call-ing, supported mainly hy busi-ness users, to subsidise private residantial lines. Even in the US, where market forces generally hold more sway, the social objective of pro-viding a telephone for the lone-ly farmar living in remote areas was built into a powerful argu-ment for subsidising local ser-vices by long-distance callers. The way in which govern-ments achieved these social and organisational aims differed from country to conntry so that

from country to conntry so that at present, as some of the reg-

at present, as some of the reg-ulatory structura begins to be dismantied, the changes are also extremely variable. In the US, for example, the break-up of AT&T has imposed an arbitrary division between the local and long-distance tele-phone operations, but it has left a large slice of equipment manufacturing, which in most countries is organised in sepa-rate companies, in the hands of the AT&T long-distance group. Meanwhile, the local groups are

Meanwhile, the local groups are barred from both the equipment and long distance areas. In the UK, however, competi-tion is being introduced through licensing an alternative operat-

ing company while controlling systems.

supplier companies mnch more clear. Liberalisa-Leading world tion is imposing strains on an industrial structure which has manufacturers of already been battered by the telecommunications imperatives of technological advance, and which is looking outward to a period when the whirlwind of innovation equipment

threatens to grow even stronger. One outcome of regulatory change is that manufacturers are, in some cases, being cut off from the stable, cash-generative (IT (US) evelopment and new products. In the UK, the forerunner of

equipment in joint ventures with independent suppliers. These two companies—GEC and Plessey—will have to support future equipment development

Figures for GEC and Plessey include on sales and some business systems. Figures for companies may also include husiness equipan Source: Monopolies and Mergers Comm

**★**Γ

Telecom

sales\* 1994

£m

7,599

3,500

2,530 2,460

2,350

2,010

1,935

1,710

693

**74**€

744

677

470

This survey is an integral part of the Financisl Times and ia not for sale separately

petition across national frontiers which has not been seen in telecommunications before. Furthermore, as manufactur-

ers examine ways of spreading the cost of developing new equipment — it is estimated, for Mercury Communication example, that the next range of public digital switchas will cost at least \$1bn each-they are faced with a situation in which winning orders in other peoples' hackyards is a condi-tion of survival. The heightening of competi-

tive press like a recip Indeed, the struggle is a a French ba switch manufacturer, to take Office automation

French developments. West Germany Dutch joint ventures Nordic Nations. Japanese investment. nese manufacturer China's awakening market

es in this way looks	International collaburatiou
e for trade friction.	Switching technology
signs are that such a	Infrastructure
lready beginning on	Cellular radiu
attlefield after what	New public services
ee as a pre-emptive	Customer services
E, the owner of CIT	Electronic publishing

section of the telecommunica-tions industry—the telephone operating business. In the US, Northern Telecom (Canada) operating business. In the US, AT&T used to manufacture equipment, snpply it and oper-ate it, so its telephone divisions were always hringing in a steady stream of cash to support its investment in research and development and new products L. N. Ericsson (Sweden) NEC (Japan) Alcatel-Thomson (France) GTE (US) **Philips (Netherla** British Telecom pnmped money into the development of new SEC (UK) Fujitsu (Japan) Plessey (UK) Italtel (Italy) Source: GEC

IN THIS SURVEY

Company

AT & T (US)

The US market **US regional companies. US equipment-makers** Long distance US services Western European scene

some now see as a pre-emptive strike by CGE, the owner of CIT Alcatel, the French public Private networks.

 Continued	on P	age	3.	 The standards issue	

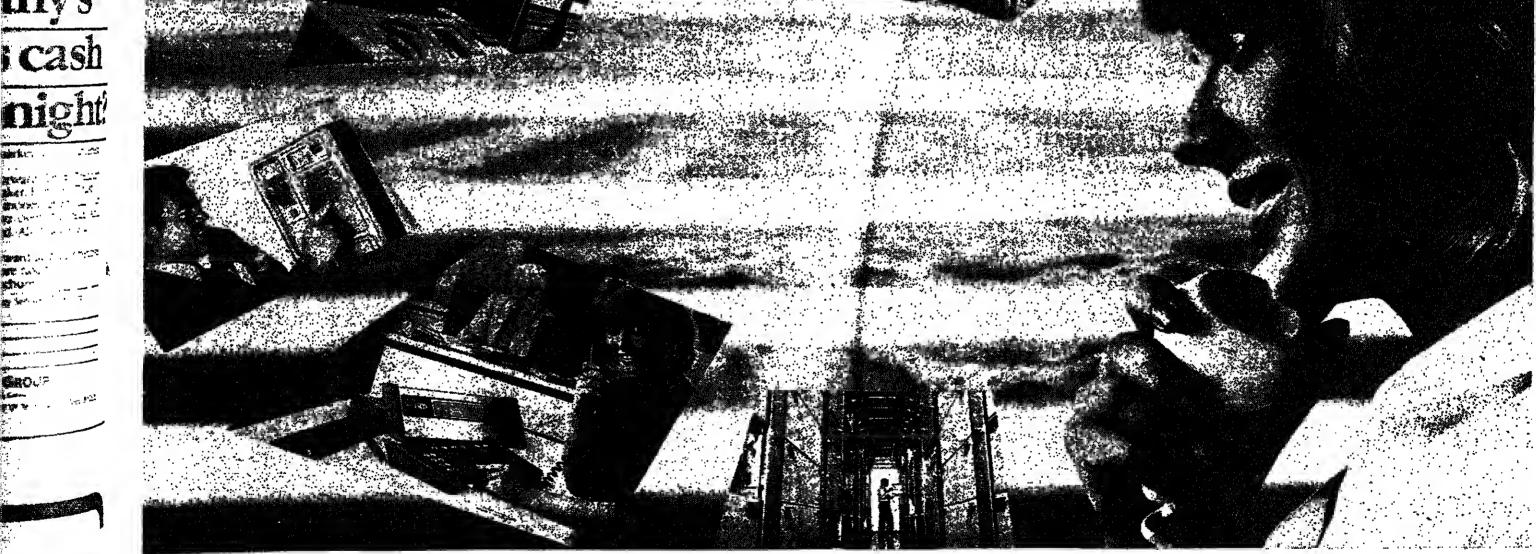
• Ice coats the aerials at Britain's biggest radio station, on top of a Scottish monntain at Greenlowther, in Dumfries and Galloway. British Telecom engineers, who maintain the station at 2,400 ft above sea level, use a Snow-trac vehicle in bad winter weather.



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ing company while controlling systems. Where the regulators are make among the public, and indica-prices so that the new company As deregulation puts down ing an anthusiastic push to tions of a decline in some ser-has a fair chance of establishing roots in several countries, it liberalise local telephone com-itself Japan appears to be head-ing in the same direction. Some whether customers receive bet-European countries, meanwhile ter services from a tightly-orga-ficult to prove the case either The impact of deregulation on

future equipment development from their own budgets alone, just like AT&T. Another result of liheralisa-tion is that equipment produc-ers can no longer be assured of a domestic market in which to, cover the costs of the develop-ment of their products. The opening of markets means opening of markets means introducing an element of com-



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Plessey ISDX, and Oman is to use these exchanges for a major new communications network.

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The height of high technology

### World Telecommunications 2

### US telephone deregulation

Subscribers still have doubts

THREE YEARS after the break-up of AT&T in Janoary 1984, the cisco. jury is still out on the impect of This operating structure is US telephone industry deregclearly ulation. One of the most complex re-

÷π.

organisations even forced on a large industrial and commercial structure has baen worked through with relative spaed and a surprising lack of unpredictahle surprises.

But it is by no means clear thether the US will end up egretting the demise of tho old sall system with its ability to laliver a slick national service

laiver a slick national service hat was tha envy of the world. Tha task that was imposed on the euthorities in the wake of tha Justice Department deci-sion dismambering AT&T was a delicate one. They had to engineer the gradual liberation of the market and particularly of the market—and particularly the long-distanco businass— while avolding both undisclplined chaos on tho one hand, or the re-emergonce of tho old monopoly structure under a free-market bat on the other. The problem was essentially

The problem was essentially one of grappling with the onor-mous strength of the Beli sys-tem-noithor shackling lt unduly, nor ellowing the large installed hase and unparalleled service experience of the Beli companies to swamp now com-petitors hefore they wera estab-ilshed.

The difficulty of maintaining The difficulty of maintaining disciplino in such a process can best he illustrated by a typicel long-distance business call from, say New York, to Sen Francisco. In the post hreak-up environment, this will start off in an office on a telphone set which may well have been built in South Korea, and be transforred to the outside world via a switchhoard which could have heen acquired from any number of companies, but which would. undor the tradilional system, have been supplied by AT&T. The call will then go to the facilities of the local lelephone operating company, a descen-dant of the Bell system, which will route it on to a long-dist-ance carrier.

For these trunk lines there are now sevaral possibilities, ranging from the numerous small operators (who lease linos or seli them) to the big players. AT&T, with about 80 per cent of the market, MCI and US Sprint.

In California, for example, the long-distance company will transfer tha call to another local operating group, which will send it via more customer

cisco. This operating structure is forecasts more complex then

using AT&T from beginning to end-complications which end-complications which inevitably gave considerable grounds for scepticism at the time of the break-up. First, the critics argued, such a systam was likely to be less

2011

easy to run and simple to under-stand for the consumer. There was a strong possibility that the anylable speed and efficiency which AT&T had astablished in installing and maintaining lines would he sacrificed for a more cumbersoma organisation. Opponents contended that there would be long dalays in services because there would be a confu-sion of responsibility over

various bits of the network. Second, there was e fear that prices for local users could riso exorhitantly—soma said by as much as 300 per cent—as a result in the declina of tha sub-sidy for the residenlial natwork

aidy for the residential natwork from long-distance calling. Tho old system, the critics claimed, was more logical and socially responsible, allowing virtually anyone to have a tele-phone because local rates were kept down. In such en industry, thoy argued, it made more sense to control prices through the regulatory process, rather than

None of the changes bas proved as drastic or as damag-ing as the critics had suggested, bowever. This is partly heceuse the regulatory process is still there, with the Federal Com-munications Commission (FCC) in Washington controlling the introduction of new long-dist-ance services, and the local Dublic Services Commission ance services, and the local Public Service Commissions maintaining a grip on the regio-nal operating companies. The changa to a multi-supplier sys-tem has also been achieved relatively smoothly, and with soma significant improvements to offset the teething troubles. On the debit side, telephone On the debit side, telephone company officials concede that it now takes longer to install a new service than hefore tho

break-up. Delays were particu-larly acute just after the change in the structure in 1984, and have been reduced considerably since then as the telaphone companies have shaken down

thair new organisations. Business probably suffers most hecause private dedicated lines and Wide Area Telecom-munications Services (WATS) tend to demand the co-ordina-tion of several communication equipment-possibly a Hong tion of several companies (the alternative service for between Kong-made bandset, to the reci- local operating groups, the long- 8 to 10 per cent less for business

US telecom sales

· Premises equipment in \$10 1986 1990 Sector Terminal equipment 3,226 4,428 Data communi equipment 3,679 6,587

Local area network 645 1,000 Switching equipment 5,848 7,642 Attached network

feections e Public telecom sales la Sm: Transmiss 3,699 5,698 equiament Switching squip

Public telecon 137,462 209,587 services 1,200 4,600 Cellular mobile radie

Source: Dataquest

distance network, and equip-ment suppliers), rather than the one-stop AT & T organisation of yesteryear. Residential rates have elso

gone np sbarply by around 45 per cont on one estimate as more of the cost of the local Infrestructure has been loaded on to the area where the expenditure is incurred. This is

cleary well over the rate of inflation, and has brought a dis-proportionate part of the "cost" of deregulation to bear on the less wall-to-do.

on the less wall-to-do. In addition, there is no douht that doregulation has sown con-fusion in the public. Some people do not understand the long-distance choices being offered to thom. Others are irritated by too much chiers are intr-telephone boxes which now take two or three long-distance cards are often the ones that callers avoid at airports.

On the other side of the coin, bowever, long-distance rates bave fallen rapidly. They are now down by 23 per cent on average over the three-year period, dampite the continuation of some access charges on the long-distance companies to link into the local network.

Into the local network. Customers in most of tha US can also chose an alternativo supplier to AT&T on the long-distance lines, with less bessle than in the past. They no longer have to dial en elaborate code to link into the alternalive service before putting through their calls; and they can buy the

customers and up to 35 per cent lan on stony ground, however, less in the case of residential. Ten states at least have made cliants. Somo form of deregulatory move Independent studies suggest in the past two years, and Neb-that the quality of service is also raska is pushing for a fairly sub-improving-pertly a by-product stantial form of local liberalisa-of the move to fibre optic cahles, tion. Not all the local operaling bet one which has pushely competer more foredom

prices have continued to fail dramalically. Private exchange equipment has come down to ehout \$600 a line from \$1,000 e lino before the break-up, For the companies that used to comprise the total Beli sys-tem, tho break-up has produced mixed fortunes with strong pro-

mixed fortunes, with strong pro-fits from the seven regional hol-ding companies, and a more patchy record from the rump of the old AT&T-now a long-dist-

would not have been able to do This is the batliefield over otherwise," says Mr Francis which the local deregulation McInerney, vice president of Northarn Business Information, the research group. The hig question mark han-ging over the industry now is how much further doregulation will be pushed through in the regions, where the Bell operat-ing companies are still the reg-ulated carriers. ulated carriers.

#### Recommendations

Only a few weeks ego. Mr Mark Fowler, chairman of the FCC and two othar officials of the and two othar officials of the regulatory agency, published a discussion document edvocat-ing wholesale liberalisation of the local markets. They recommended that operaling com-panies should bave more freedom to set their tariffs, in return for an open notwork archllecture design for the local exchanges that woud allow anyone to access the equipment

freely. Mr Fowler argued that there are countless entreprenours awaiting to take advantage of such a chance to introduce a such a coance to introduce a variety of services—automatic switch-on for cantral heating devices, for axample, burglar alarms, or over-the-lina medical chacks-ups.

The FCC proposal bas not fal-

but one which has probably compatiles want more freedom been hastened by the introduc- in their own beckyards, but tion of a compatilive system. some, like US West. for At the same time, product example, beve pushed quite prices have continued to fall hard for it

These companies want the freedom to introduca new ser-vices from which they are ben-ned et present, and perhaps even more important, the ability to alter thair tariffs to fighl off compelitiva challanges.

They ere all worrled, for example, about the by-pass problem, under which businesses set up their own communications networks end completely miss out the public

the old AT&T-now a long distance operaor, equipment manufacturer and research end development company. Tho change in structure hes given them all the opportunity to slim down and improve their efficiancy, with hig joh reduc-tions which might have been dif-ficult to echieve nndar the old structure. "They heve been enebled to make changes nnder the cover of dereguistion which they for the other wind, fre-to dereguistion which they of the the down of profits of dereguistion which they to the operating companies. would not have been able to do otherwise," says Mr Francis

THE BABY Bells, the seven regional US telephone operat-



Financial Times Monday December 1 1986

The US financial sector is setting the pace in advanced business telecommunications: left, a section of Salomon Bros' main trading floor in New York

### US regional companies Seven Baby Bells grow up

#### AT & T and US regional holding company results

	ing companies horn out of the	AT & T and US regional holding company results								
hreak-up of AT & T almost three years ego, are infants no longer. Like adolescants developing their own personalities, they	Company	Srd quarter 3 revenue \$ba	ind quarter get: incoma Sm	3rd quarter EPS	9 months revenue Shn	9 months oet income \$m	9 months EPS	access lines		
í	are beginning to break out in several different directions.	AT & T	8.43	533.0	0.48	25.56	1,484.0	1.32	N.A.	
1	gradnally losing the uniformity	Ameritech	2.3	291.8	3.03	6.99	-861.0	8.90	14,693,000	
	which characterised their busicesses under the old mono-	Bell Atlantic	2.5	297.9	1.49	73	895.2	4.48	15,406,000	
	lithic US telephone regime, Bnt	Bellsouth	2.89	399.2	1.26	8.62	1,228.0	3.94	13,000,000	
•	none of them are anywhere near mature as yet, and it is impossi-	NYNEX	2.87	314.3	1.55	8.39	921.6	4.55	13,845,000	
	hle to say what they will look like a decade from now.	Pacific Telesis	2.31	285.1	1.32	. 6.79	842.0	3.92	11,940,000	
	For the time being, despite	US West	2,14	268.3	1.41	6.22	718.4	3.78	11,880,000	
	the changes, there are some strong similarities in the way	Southwestern Bell	1.96	257.5	2.58	5,89	741.5	7.44	11,076,000	
	the seven regionals have nor.								and the second se	

the seven regionals bave per-formed since the break-up. At te: RNAR flachoms, remarch is formed since the hreak-up. At the time of the reorganisation there was a tendency smong investors to think of the local operating groups as rather dull utilities shorn of the glamorous long-distance, equipment and research businesses which remained within AT & T itself.

shares of the operating groups the foray into the cellular phone in a way that makes them look business with the acquisition of anything but the dowdy utilitias Metromedia's activities in this that were being written about in area "for \$1.2bn, the biggest biokers' circulars three years single purchase by any of the 820. regionals. Total investment returns for . US West: Also keep to bolster

the group-the "magnificent sluggisb regulated earnings seven"-has averaged better through diversification. US than 30 per cent, including both West has built a diversified actidividends paid and share price vities group consisting of cellalar, equipment sales, directory

publishing, real estate and, financial services.

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Its property division-holds almost \$700m of real estate, while its finance subsidiary is involved in computer leases and receivables, and it is seeking permission to offer insurance and brokerage services.

**Terry Dodsworth** 

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ent 3,112 2,674

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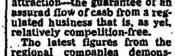
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The predictability of the util-

lty aspects of the regional com-panles' business, however, bas

since come to be seen as an

regional companies demons-trate the conlinuing strength of trate the continuing strength of this regulated base. Overall, tho seven groups bave experienced e stoady expansion of traffic over their existing nelworks. The numbor of now lines com-ing into sorvice has also advanced moderately, with a par-ticularly strong upsurge in ereas which have benefited the most from the patchy growth of

the US economy. Boll South, for example, in the bigb-growth sonthoast of the US, has seen strong volume increases, while Nynex, the north eestern regionel which ombraces the New York end Boston financiel centres, has experionced an unexpected hoost from the boom in the

securities industry. Nynex, indeed, has had record growth in call volume as well as new customor line

weil as new customor line installetions. Even US West, which is operating in a difficult econo-mic climate in the region which lies squarely over the Rocky Mountain system from Caneda to Mexico, brought 150,000 naw lines into service in the third quarter of this year. Added to this underlying rise in volume, the regioneis hevo

In volume, the regionels hevo also heen able to benefit from taking off some of the fat left on them from the AT & T era. They have shed staff universally in

have shed staff universally in the last three yeers, hoosing earnings through cost-cutting and productivity gains. Southwestern Bell, the regio-nal group based in St Louis, has reduced its workforce by 3,000, or 5 per cent, since the begin-ning of this year, and is elming to trim another 1,000 in the final three months of 1986, bringing its payroll cuts to about 13 per cent aince 1984. US West has similarly trim-med its employee ranks by 5,700 over the last 12 months. The results of the Bell com-

The results of the Bell com-panies bave risen in tandem with these benign operating conditions. In the first nine manths of this year, Pecific Telesis has generated a 17 per cent increase in net income, while Nynex's profits were up by 11 per cent, and Bell Atlan-tic's by 8.8 per cent. Ameritech, based in Chicago amidst tho problems of the farm

Ameritech, based in Chleago amidst tho problems of the farm beit and the struggling US manufacturing sector, achieved e 3.8 per cent rise, just a little batter than inflatinn. Wall Street has responded to this growth and tha higher dividends that have flowed from it (most of the oparating com-panias currently pay out ahout three-quarters of their annual earnings) by pushing up the

33. E 77.

earnings) by pushing up the

appreciation. Nynex, at the top of the lis Nynex, at the top of the list, bas achieved a 35.4 per cent return up to September 30 of this year, followed by Bell Sonth on 35.1 per cent, while only one of the group has achieved less than 30 per cent for share-boldors-Southwestern Bell at 29.9 pcr cent. The last three months, however, seem to indicate that soma of the easler gains from the break-up bave now been digested.

digested.

The mein diversified activi-tias of each of the operating

companies are es follows: • Ameritech: The Chicago-based group owns Appiled Deta Research, an IBM computer software company from Prince-ton New Jarcey along with perton, New Jersey, elong with pro-fitable publishing and finance ectivities end e 20 per cent stake In Canadlen cellular mobile

In Canadien Centuar monito telephooa group. It is expecting that between 30 per cent and 50 per cent of its ennuel earnings growth will come from non-reguleted tole-phone activities by 1988. • Bell Atianlic: An aggressive

diversifier, Bell Atlaotic has branched out into minicompu-ter distribution in Canada, and telecommunication equipment marketing in Target

telecommunication equipment marketiog in Texas. It has also moved into finan-clai services, particularly through the purchase of Greyhound Capital from tha long-distance coach operator, and a computer leasing group in Europe. Earnings growth in this division could approach 50 per division could approach 50 per cant of the group's total next year, it says. • Bell South: With stronger

• Bell South: With stronger than everage growth in its hasic husinass, Bell South has moved cautiously on its diversification programme. Il is expanding into netional directory sales, has estabilahed an in-house real estate business, end has acquired 40 per cent of a cellu-lar and paging company in London, London,

 Nynex: Nynex has been fight-ing hard to protect its directory publishing against Southwest-ern Bell's attempts to break into the lucrative Manhattan market. It is also showing interest in pressing for local deregulation in certain areas in order to offer a broad range of services.

 a broad range of services.
 Pacific Telesis: PacTel, a whatly-owned subsidiary for the group's unregulated ectivities, has moved inin cellular lel-phones, equipmant sales and publishing of visitor guides. It is also expanding in Internationel markets, using its Operating knnw-bow to cepture cowfracts in Chins and South Korea for advice an the 1988 Olympics.
 Southwestera Bell: Trapped • Southwestern Bell: Trapped in a reginn which has suffered heavily from the decline in the oil and farming sectors, South-western Bell has made a drama-



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Long-distance Services in US

# Most callers now have a choice

OVER THE last 12 months the US long-distance telephone industry has edged forward towards the hrave new competitive world conceived by the anti-trust lawyers in the hreak-up of AT&T three years ago. The market has become more open and less regulated. Prices have dropped like a stone—by about 23 per cent on the last count. 23 per cent on the last count. It is still not clear, however, to what extent the AT&T monolith bas been dismantled, or what structure will finally emerge to take its place in this huge, \$50bn-a-year business. The most significant changes fall into two main categories:

fail into two main categories: • The first is the rapid development of alternative vehicles to the AT&T network. The installation of new equipment to allow these alternatives an eqnal ahil-ity to hook into local exchanges (equal access), now means that about 7 ont of 10 Americans can choose to make their calls via a rival carrier. Customers were canvassed

earlier this year to choose their favoured vendor, and by Septemher they had been linked into the service of their choice in areas covering 70 per cent of the country.

pay for wiring and infrastruc-ture costs at the local level By-

Under the new system, users no longer have to go through an elahorate dialling procedura to pick up a non-AT&T aervice, a procedure which was regarded as a aignificant disincentive to . LTE DICE IT M New York as a aignificant disincentive to moving to the new carriers under the old regime. • Second, the regulatory framework which was designed to put a straitjacket on AT&T during the early part of the break-up period, has been con-siderably loosened, allowing it to operate on more equal terms with its smaller connections.

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Terry Dodser



In the US a caller uses Airfone, one of the world's first public air-to-ground telephone services available to airline passengers.

### **US long distance telephone market**

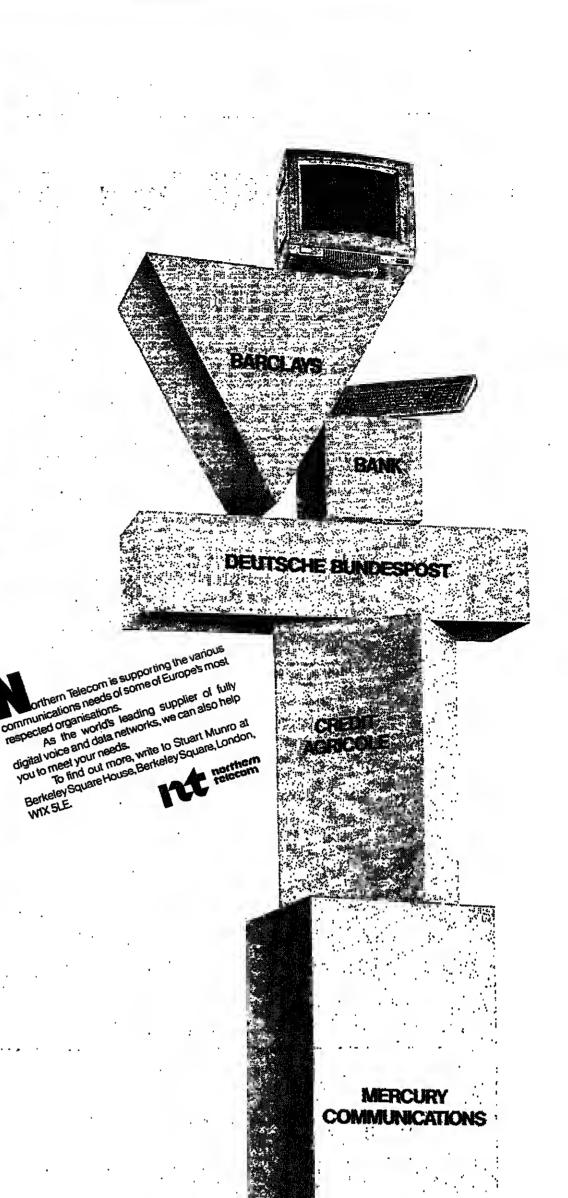
Company	1984 Revenue . \$B	1985 Revenue \$B	1986 Est Revenue SB	1989 Proj Revenue SB	1984 Mikt share %	1985 Mkt share %	1986 Est market share %	1989 Pro market share %
AT&T	33.19	34.91	36.00	NA	91.0	86.0	81.0	72.0
MCI	1.96	2.54	3.45	NA	4.0	6.0	8.0	13.0
US Sprint	1.245	1.345	1.500	NA	2.0	3.0	4.0	9.0
Others _	3.60	5.20	9.05	NA	3.0	5.0	7.0	6.0
Total market	40.0	44.0	50.0	62.0	100.0	100.0	100.9	100.0

with its smaller competitors. Following the break-up order, prohlems they baye faced, and In the advertising hattle in many cases continue to face, are the following: The cost of investment to con-struct sufficiently large net-works to compete with AT&T is petitors. Some estimates put proving a heavy strain on the hudgeted enending as high as AT&T had its anormoos market power deliberately blunted by forcing it to pay a higher "access charge" to tha local telephone operators than its rivals. proving a heavy strain on the financial resources of the The access charges were a deliberate attempt to levy a kind of tax on the long-distance carriers, who bave a prepender-ance of business customers, to

MCI, the largest of the alterna-tive long-distance groups, and the company which first began tha challenge on AT&T's domiat least two-thirds. The alternative carriers com-plain that they bave been at a disadvantage in this campaign partly because they have not been able to target cnstomers so precisely as their larger com-petitor, which clearly bas super-ior historical knowledge of the market. this means, administrators aimed to keep prices down so that telephones remained within the financial reach of the poorest families. To reflect the increasing com-netition in the market the market

A the terms of the second largest of the newcomers, is in the mid-higher access charge demanded from AT&T has been steadily reduced, and the charges of its competitors gradually increased, until now there is no differential between the twins some areas. The change is plunging the long-distance carriers, into an environment which is relatively undistorted by regulatory demands. It is, consequently becoming more difficult, for the scale access face fulls signer access charge. The factors are now gaining targer group by taking advan-tage of its bigher access charge. The factors are now gaining in active scale in the first of these samalgama ity and cost of service, and, the ability to attract sufficient the qual-ity and cost of service, and, the ability to attract sufficient the qual-ity and cost of service, and, the ability to attract sufficient the rest ranked of its scale access. The server to a sin the source of the size of

stone estimates, part hudgeted spending as bigh as \$500m this year by all the car-riers, with AT&T accounting for at least two-thirds.



impany of E onsure finarmarcial coolsompanies op ning fields b mommunica-Monal and se inations; 18 nd instaliator is equipme

equipment supplier of its kind in the world. Although many analysis claim that it will be very difficult to make this merger work, it has been enough to air up the rest. of the industry. Siemens of West Germany, faced with a French group which will have more than 30 per cent of the West German market through the ITT link, has quickly stepped in to stake its claim to a chunk of the French istronic com ad telematic Mor: activities switching equipment unications.

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product. ‡ Plessey subsidiary, but selling a range of public switching. equipment specifically for US er and Margers Com

tious expansion plans. As the terms of the long-dist-US market, the old situation ance battle business have still appertains. Here, the new changed, it is becoming appa-rent that the challengers to charges, hut continue to suffer AT&Ts position are still strug-gling to develop viable alterna-tive businesses. Among the their services.

Whirlwind of change

Alcatel.

Continued from Page 1

over ITT's exchange manu-facturing division. Tha link np will create the second largest

equipment supplier of its kind

World sales of public

Sales of all

1,350

1,000

1,600

950

850

750

700

350

260

260

180

130

120

7,970

\* Or latest year available. † AT & T

70‡

public switching 1985-

• Sales by leading ma

AT & T

Siemens

Ericsson Alcatel-Thomson

ITT

GTE

GEC

Italtel

Philips

Others

Tetal

Stromberg-Carl.

Plessey

Northern Telecom

NEC-Fujitsu-Hit

amonitons scheme to transmit tion. voice and data for large husi-mess customers, mainly over group's share of US long-dist-microwave links, hut failed to ance revenues has deteriorated attract the volume to make it from a little over 90 per cent of

table. The deal with MCI bas taken over 80 per cent today. BS into a more conventional In the recent round of

market through a take-over of CGCT, which supplies about 16 per cent of the French public exchange market. The Siemens hid would have

been all very well if AT&T of the US had not made a previous offer and come close to clin-ching it with the approval of the French Government, tha ulti-mate owner of CGCT and Alcesel

But now the fate of CGCT. a company which has rarely made a profit for several years, and whose main virtua lies in its of fibre optic cable in the ground hy the end of this year. and about 10,000 by the end of

whose main virtua lies in its of lift potential to give manufacturers groun additional volume and and a geographical reach in a tight marketplace, has dragged in Governments as well Behind Slemens, the West German Government has heen lohhying heavily in France, while the US administration has tiened while the US administration has weighed in on the part of AT&T, weighed in on the part of Alex1, going so far as to threaten a han on Siemens sales of telephone exchange equipment in the US if tha West German manufactur-er is allowed to win the bid for CGCT. This authorst of trade friction

and a network of 13,500 miles of fibre optic cahle already in the ground. By the end of next year it is expecting to complete 23,000 miles. The Immediate benefit of the merger to GTE was to reduce losses running at around 2000m a the Federal Com-munications Commission takes down some of the defensive acreens behind which they were able to grow to their present size. Terry Dodsworth This outhurst of trade friction. in which the US authorities angrily attacked Europe for alleged protectionism, demons-

\$200m a year, while reducing

trates the exceptional import-ance which Governments attach to their telecommunications companies. The big groups in **US Central Office Sales and Market Share** the industry continne to be seen

as technology leaders and national champlons in a growth • Figures by supplier with sales in \$m; lines and trunks in thousands

Sector.						
It is natural, therefore, that governments, including even those that have liberalised their domestic markets, should inter-	Company	1984 CO sales \$	Local lines installed	Local market share %	Toil trunks installed	Toll market share
vene and try to help out on be- balf of their country's flagship. It is even more to be expected in an industry in which regulation is totally ingrained.	AT & T Northern Telecom GTE Plessey ITT	2,413 1,135 791 95 50	3,185 1,909 1,525 195 90	45.8 27.4 21.9 2.8 1.3	706 514 227 19 19	47.4 34.5 15.2 1.3 1.3
But it will not belp the overall health of the sector at a time when the need to rationalise capacity suggests that gover-	NEC CIT Other	20 5 0	40 12 0	0.6 0.2 0.0	5 0 0	0.3 0.0 0.0
ments shoud be turning their attention to the creation of a	Total	4,509	6,956	100.0	1,490	100.0

attention to the new order, rather abusive skir- Note: There is a time lag between when a sale is recognised and when a mishes around the body of a system is installed; consequently sales and installation market sales are not disintegrating corporation. directly comparable.

SBS into a more conventional In the recent round of cut-price long-distance opera- customer polls to select loog-tion, while holding out the distance customers, AT&T is possibility that IBM can use the reckoned to have captured husiness as a link in its drive around 75 per cent of the vote.

husiness as a link in its drive into the market for integrated data and communications. With the addition of SBS, MCI now claims to have about 4.5m customers, of which 3.6m are to increase its penetration to moving up recently at between 8 communications.

among the Fortune 500 com-panies, bringing its total to 450 companies against 407 at the heginning of the year. With about 8 per cent of the With about 8 per cent of the that it still well short of the it still well short of the it still well short of the that short of the target it here cent that the group's ability to hold onto 75 per cent of its customers in the recent poll was a victory the its still well short of the the its still well short of the target it here cent the its still well short of the target it here cent the its still well short of the target it here cent the its still well short of the target it here cent the its still well short of the target it here cent the its still well short of the target it here cent the its still well short of the target it here cent the its still well short of the target it here cent the its still well short of the target it here cent the its still well short of the target it here cent the its still well short of the target it here cent the its still well short of the target it here cent the its still well short of the target it here cent the its still well short of the target it here cent the its still well short of the target it here cent the its still well short of the target it here cent the its still target it here cent the its still well short of the target it here cent the its still target it here cent the its still target it here cent target its still target its still target its target it here cent target its still target its t and 10 per cent a year. Many analysis also consider that the group's ahility to hold onto 75 per cent of its customers US market it is still well short of in itself—at the time of the the 15 per cent target it has set hreak-up, some gloom-monger-itself, and which many analysts ers were predicting a precipi-think is a necessary condition for survival in the husiness. It is pushing ahead with its expansion plans, bowever, and led hase and lower relative reckons it will have 5.500 miles costs, it has continued to make profits out of its long-distance lines at a rate which makes its competitors look like also-rans. Indeed, the main immediate

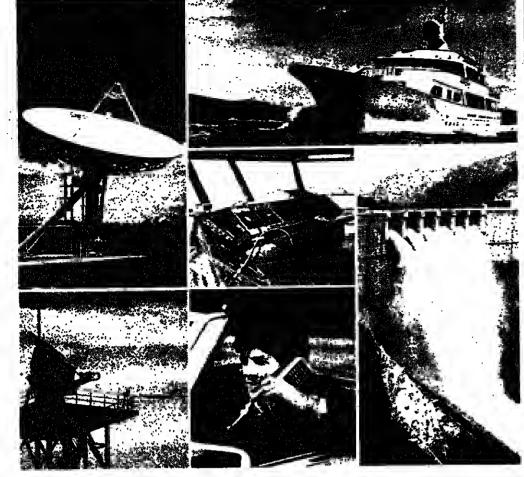
question for the AT&T competi-tors is whether their finances Similarly, GTE, the big indel pendent telephone operating will hold out long enough to group, has this year merged its Sprint long-distance subsidiary large market hase to hegin to

Sprint long-distance subsidiary into United Telecommunica-tions' US Telecom subsidiary in a 50-50 joint venture. This cre-ates a group, US Sprint, with a customer base of around 2.6m and a network of 13,500 miles of base of around 2.6m and a network of 13,500 miles of the customer base around 2.6m and a network of 12,500 miles of the customer base around 2.6m and a network of 12,500 miles of the customer base around 2.6m and a network of 12,500 miles of the customer base around 2.6m around 2

# **Terry Dodsworth**

attract the volume to-make It viahle.

# **JRC** When Communication Counts



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# West European Scene **Old patchwork** begins to come apart

THE THREADS which have facturers, particularly of public kept Western Europe'a exchanges, which are patchwork of telecommunica- increasingly captives of their tions markets and industries protected home markets, to tightly stitched in place for the expand so as to ocquire the eco-

far from clear. State-controlled monopolies, ures are common to all which have long dominated tolecommunications in most considerable divergence of European countries, are undor response. Different countries growing pressure to adapt to competition and coaging mar-ket needs. Since Britain liberal-ised its market in 1981, Franco. the Netherlande and West Car. competition and changing mar-ket needs. Since Britain liberal-ised its market in 1981. Franco. the Netherlands and West Germany have all launched reviews of their national policies.

Simultaneously, Europe's overcrowded equipment industry faces huge challanges, too. Squeozed by protected national markets, tongher international competition and rising costs, the industry appears ripe for rationalisation. A dramatic step was taken in

this direction oarlier this year when CGE of France and ITT of the US agreed to morgo thoir equipment businesses in a joint venture which would create tho world's second-largest manu-facturer, with operations in a lozen countries.

dozen countries. These developments are the product of a diverse array of pressures for change which have built up more or less simultaneously over the past few years The main ones include: include:

which is rapidly eroding traditional boundaries both between telecommunications and computing and with other industries such as financial services and retailing.

phone and Telegraph. e Mounting demands for wider choica and more economic tariffs, particularly from large telecommunications usin

Sers. · Political pressures within many countries for changes in the rola and style of operation of national telecommunications administrations (PTTs). • The urgent need of mann-



Communication and computer control

Automatic Mobile Telephone Systems

Digital Radio Communications System

River/Dam Management Systems
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. INMARSAT Ship Earth Stations

Rural Radiotelaphone Systems

technologies from JRC:

Satellite Earth Stations

Vessel Traffic Systems

Radio Coast Stations

best part of a century are star-ting to unravel. But exactly what finance soaring development now pattern will emarge is still costs. Though many of these press-

clear overall direction for tho future. The confusion stems partly from the fact that European countries in redefining their telecommunications, policies, are seeking in pursue two sepa-rate goals. They want to stimu-lato more vigorous and innova-tive markets for telecom-munications equipment and services while also building up, internationally more competiinternationally more competi-tive anpplier industries. But these objectives are not proving

easy to reconcil Governments in many countries have come to recognise that the traditional monopoly

that the traditional monopoly system, which has treated tele-communications as a sedate supply-driven utility, is no lon-ger appropriate to any industry Con-which is hoing drastically AT reabaped by rapidly changing technology and falling costs. Hence many PTTs are undar pressure both to make their own operations more efficient and to allow new competitors into the market. Several countries have already taken steps to liberalise

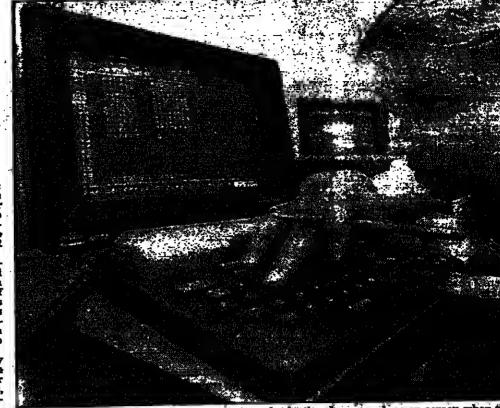
market, Several countries have already taken steps to liberalise Eric the supply of customer équip-mant and valuo added network services, though only the UK has so far permitted competi-tion in fhe public telephone net-work in the form of Mercury Communications, a subsidiary of Colle and Wireles. Eri

of Cable and Wireless. The urge to liberallse is tem- Phil pered by caution, however. No Str pered by caution, nowever. No country wants to throw open its market simply to bave it over-run by foreign competitors. Behind much of the recent policy debate appears to lie a ÖĦ

policy depate appears to he a desire by governments to stimn-iate just enough competition to keep the PTTs (posts, telegraphs and telecommunications) on their metile bat not so much as to jeopardize their commercial position

Lumbering and bureaucratic they appear to their critics, PITS are also widely acknowledged to possess a vital strategic role in their national high-technology efforts. Their massive financial, technical and commercial resources endow them with powerful potential as defenders of the national Interest both in their home mar., ures on them at home rather Many observers believe that pressure for tets and internationally against than to assist them on internation of the con-already south rivals such es IBM, AT&T and the Bell telephone companies. Thus, in the UK, the govern-ment's actions to curb British Telecom's domestic monopoly have alternated uneasily with a tendaticy to view BT as an emer-ging "flagship" of the blgh-technology industrias. Earlier this year, the Governmont rejected the advice of the Monopolies and Mergers Commission and authorised BT to move into

Financial Times Monday December 1 1986 World Telecommunications 4



On screen directory: in France, a secretary checks the phone numbers on screen when the seven-digit numbering system was changed to eight digits to boost the number of possible subscriptions available.

World sales of public switching equipment a Sales by leading In fra Sales of all

	public switching equipment 1985*	with IIT, The fear in the DGT is that these agreements, which have still to be approved by the French Government may
mpany	. £m.	French Government, may severely restrict its future
& T	1,350	choice of suppliers.
rthern Telecom	1,000	The ramifications of the CGE/
C-Fojitsu-Hit.	1,000	ITT affair bave, of course, spread far wider than the DGT
mens	950	and have developed into an
ſ	850	international political con- troversy into which the West
esson	750	German, US and Netherlanda
atel-Thomson	700	Governments have all been drawn
E ···	350	Although CGE has sought to
ssey	260	present the III- deal as a "Enropean" initiative, many
C	260	other countries are sceptical,
itel	180	viewing it largely as a factic by the French state-owned group
ilips	1301	to advance its own interests by
romberg-Carl.	70‡	gaining control of ITT's large . European customer base.
hers	120	Room has reacted by pressing
Total	7.970	the French Government to sell the nationalised CGOT telecom-
• Or lätest year a	vallable. † AT & T	munications group to Slemens,

the West German electronics group, which would thus gain control of CGCT's 16 per cent share of French public product. ‡ Plessey subsidiary, but selling a range of public switching aquigment specifically for US

manufacturing by buying con-trol. of Milel, the Canadian tion in turn, has incomed the PABS maker. But wis, move, and BT's deer this. France and West Germany sion last year is order public are batching a cosy-bilateral exchanges from Thorn Krictson, neal to share out each other's have aroused considerable some markets. The US, becked by the troversy. UK manufacturers Netherlands Government, has such as GEC. Plessey and ICL miged France to sell CGCT to have all protested that BT is AT&T, which has a joint equip-using its new-found commercial ment venture with Philips of the freedom to increase the press. Netherlands. ures on them at bome rather Many observers believe that atchange orders. The West German interven-

business and enforce more comt petitive procurement policies. extremely unattractive to CGE However, the DGT has been while it was wrestling with the out-manoeuvred by CGE, its formidable task of integrating main traditional supplier. ITT's equipment with its own which first engineered a link-up product range. with AT&T and subsequently with AT&T and subsequently with ITT. The fear in the DGT is affair is likely to have longer-that these agreements, which term implications for the EEC'a that these agreements which term implications for the EEC'a

. Carle Manue

supplier

TT, The fear in the DG7 is an implications for the LEC -these agreements, which term implications for the LEC -still to be approved by the recent afforts to strengthen the Government, may Europe's telecommunications ely restrict its future industry by stimulating subsi-dised collaboration between of suppliers. ramifications of the CGE/ leading manufacturers and tho

PTTs. The thrust of the EEC's initiatives lies in promoting common EEC-wide standards and coeEC-wide standards and co-operation on the development of advanced systems. The cen-trepiece is Bace, a joint prog-ramme intended to lay the basis for wideband telecommunica-

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ramme intended to lay the Dasis hough CGE has sought to for wideband telecommunica-nt: the TIT deal as toons networks which are opean ". initiative, many expected to enter service in the countries are sceptical, 1990s. The programme has been trended state-owned group widaly applauded by the indus-try and by EEC governments. ag control of TIT's large But it is at best only a partial bean customer base. In the programme has been to a service in the solution to the industry's prob-lems since it is not huttressed solution to the industry's prob-lems since it is not huttressed by any measures to create a more open European market by dismantling the protectionist procurement policies long pracprocurement policies long prac-used by most European PTTs. Hence, while manufacturers may be in a position to make future products to the same standards, thare is no guarantee that they will be entitled to sell "The Europe-wide." The EEC Commission has so

The EEC Commission has so far refrained from attacking PTT monopoly practices head-on, apparently because it fears that it lacks the necessary legal and political power and would suffer a bruising rebuilt. By contrast, the US Govern-

ment bas been stepping up that

Technological convergonce,

vices and retailing. • International competition in equipment and services, fuelled by US doregulation and the break-up of American Tele-

# tor inexpensive car phones

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### DBIRA AN **IN-CAR TELEPHONE**

Nokia-Mobira Limited, The Science Park, Cambridge CB4 4GH. Telex 817254 MOBIRAG. than to assist them on inter the resolution of the con-national markets. In France the Direction for the future of European Générale des Télécommunica-equipment markets. Views are tions (DGT), the national tele-divided, however, on whether communications monopoly, the CGE/TT deal, if it goes finds litself at the centre of an ahead, will advance or retard even more complex imbroglio. the process of market opening. After being used by the formor Socialist Government as a milch ing once secured access to ITT's cow to finance the loss-making equipment industry, the DGT. would have little incentive to would dearly like more inde-press for lower market harriers.

already sought in bilateral talks to get West Germany to open up to get West Germany to open up its market and is expected to make an issue of European poli-cies in the forthcoming GATT world trade negotiations. Whether the US offensive will achieve its objectives. on the contrary, canse European countries to take up the cudgels in defence of the status quo-remains to be seen.

Guy de Jonquieres

### Shake-up in US Equipment Market Manufacturers struggle to adjust

THE SHOCKWAVES of dereg-nlation, the transformation of AT & T's local telephone opera-tions into independent regional companies, continue to ahake the \$22bn US telecommunica-tions equipment industry creet-ing confusion and volatility for both buyers and sellers. Telecom, its closest rival, sold to price such services aggres-tival, sold to price such services aggres-tival, sold to price such services aggres-tor is sively. Centrex services for businesses with 100 phone lines or less may grow by an average toms, which typicelly handle on to 40-phone lines, are in a slump. "1985 was to the key system. Industry what the 1930s dopress-

ing confusion and volatility for both buyers and sellers. As the telephone industry: struggles to adjust to the new competitive environment, new technology—in the form of an integrated services digital net-work (ISDN) that promises to transform the largely analog puterised digital network which carries data and video signals

in the meantime, suppliers of telephone equipment to businesses face the problems of a broad slowdown in US capital spending that is holding up purchases of office-type phone exchanges and new office net-monte works.

This has been a sluggish year for many portions of the US in 1990, he projects. industry with supply exceeding Bathar than mirely industry with supply exceeding demand in most market seg-ments. Sblpments of private hranch exchanges, the switch-ing systems installed in corpo-rate offices, are projected to grow by a lacklustre 6 per cent ner war nutil 1990. second in to grow by a lacklustre 6 per cent per year nulli 1990, according to Dataquest. Factors inhibiting growth will include reduced replacement opportunities as older analog systems are dis-placed and the anticipated of alternative Centrex. The installed base of "Contrex" systems is expected to grow from a current 6.3m lines to 7.8m by the end of the decade. Deregulated regional Bell operating companies will make Controx more attractive with

placed and the anticipated growth of alternalive Centrex services, offared hy local tele-phone companies. Estimated 1986 revenues of \$3.3hn will grow at on annail rate of 7.8 per cent to \$4.4bn hy the and of the decade, tho mar-ket researchers projact. In 1985. AT&T held its laad in the US market while Northern market share, while Northern

- ..

telephone system into a com-puterised digital network which along with voice-beralds even in the meantime, suppliers of telephone equipment to businesses face the problems of s broad slowdown in US capital spending that is holding up

Increased residential and small husiness use will fuel growth of smaller key telephone systems, with sales rising from out \$550m this year to \$602m

> Rather than purchese their own switching systems, more husinesses will turn to the telepbono company for enhanced Centrex services over the next five years, Dataquest predicts. The installed base of "Contrex"

phona companies are planning other value-added services which could give the equipment market a boost. Pacific Bell, for example, is testing a data and telephone communications service which it calls "Victoria that could become the modal for similar services throughout the US.

US. Using a "multiplexer" that splits a single phone line into seven channels—two for voice. and five for dota—Pac Bell aims to offer residential and busi-ness customers access to a renor of data\_nations range of data-retrieval services, range of Galartetrityan services, including bome banking, com-munity bulletin boards, sbop-ping and entertainment guides, news retrieval, energy monoge-ment and electronic mail.

ment and electronic mail. Pac Beil plans to undertake e major trial of the system next year with abont 5,000 paying customers. Before the system enters commercial uso, however, several regulatory burdles must be overcome. Aircady IBM and Western Union have raised objections to Pac Belis' entry into the

Pac Belis' entry into the enhanced data communications field. And tha phone company is awaiting a ruling from tho Fede-ral Communications Commis-

sion. Although the role of the phone companies moy still be uncertain, tho merger of compualready indor way. Telephone companies throughout the world are working toward the implomontation of an inte-grated services data network. While the US is behind Japan and much of Europe, progress

and much of Europe, progress businesses which cannot afford has come much faster than to buy their own equipment and many in tho telecommunica-

fions industry had expected, in part due to the enthusiasm of equipment manufacturers who see ISDN as e major new opportunity. ISDN services are

expected to be widely available ' in the US by the mid-1990s, with pockets of ISDN services emer-ging as early as 1968 in major

metropolitan areas. Several field trials of ISDN several new mais or ISDN are scheduled to begin next year et regional phone com-panies and the world's major equipment manufacturers are vying for contracts to supply prototype equipment.

Implementation of ISDN will require a major update of telephone equipment, both at tele-phone companies and customers offices. Analoguo telephone ers offices. Analoguo telephone-switching equipment will become obsolots and even existing digital switches will need to be adapted to fit ISDN standards standards.

The major impact of ISDN on the telecommunications equip-ment business will come in the ment business will come in the customor-premises equipment sector, according to Victor Krueger, vice president of Data-quest, a US market research company. ISDN will provide US vendors of terminals, tela-phones, PBXs and other office equipment with an incremental sales increase of \$1bn over the period 1988-1990, solely as a result of ISDN, he calculates. For central nfice equipment

result of ISDN, he calculates. For central nflice equipmant manufacturers, the hooty shnuld ha worth about \$600m over the same period, whila transmission equipment manu-facturers can look forward to a \$220m opportunity. Although competitinn is tough and gotting toughor, the US tele-communications equipment market will remain the largest in the world growing to an esti-

in the world growing th an esti-maled \$35bo by 1989.

Louise Kehoe

### World Telecommunications 5

### The UK Equipment Market

. . .

# Suppliers show variety on offer

'A VISITOR to Britain need look no further than its high streets to see that the UK telecommunications equipment market, worth more than fil.7bn last year, has been liberalised. Phone shops and a variety of phones for sale in the high street multiples bear witness to this fact this fact.

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Since liberalisation, there has been a flood of equipmant. trying to get into the British market. So far the approval anthorities have given the go-ahead to about 50 new makes of private exchange, about 40 smaller private exchanges known as key systems, about 400 types of telephone and abeut 20 ranges of cordless phone. Before liberalisation, by con-

trast, about 10 manufacturers supplied a limited range of pri-vate exchanges to the UK market.

However, the picture in the UK equipment market is more complex than the apparent one of a thousand products blcomor e inousant prouncis bicom-ing, thanks to the delights of unrestrained competition. There are three reasons why the UK market is still notcharacterisd by anything like perfect competition.

Binnin competition minely instruments and a wax a restruction binning larg Binning larg Binning larg Binning larg First, British Telecom moved rapidly in the run-np to liber-alisation to consolidate and even strengthen its position as the dominant supplier of private exchanges. BT used its dominance in the supply of exchanges below 100 lines to launch a modernisation

programme, converting the older electro-mechanical exchanges. So successful was this drive that the market for private exchanges below 100 lines peaked in 1963-84. Prices have fallen and there may now be an over-supply in the market, leading some observers to pre-

in Empireations (and a second dict a shake-out. Moreover, BT moved aggres-sively into the supply of exchanges with more than 100 lines, a market from which it andrhaat inetin Contempolar interimi to network that network to enter service the Divertance the sele approxime the Cant by All grant was previously absent. In the year to March, BT captured more than 60 per cent of this market which has now also peaked, according to MZA, a manufact

Canad the ALL grants is an at hert tray and allow the the total strain and the state of the total and open if any person and strage the strain and strain a production and strain and str specialist marketing consultancy. The second factor alowing up unfair liberalisation is deficiencies in phones. the procedures for approving private exchanges. In particu-lar, the British Approvals Board was immediately attacked by

for Telecommunications has the Telecommunications Indus-been severely hampered by a try Association, a trade associa-lack of enough telecom tion representing the indepenengineers.

Public switching equipment sales in the UK

£me. 1961-82 1982-83 1983-84 1984-85 1985-86

	(including contract development)			1.0		
	Estimated market size	565	575	555	560	650
	of which: GEC sales	215	299	173	162	258
	Plessey sales*	209	230	195	256	261
·	Market share of					
·	SEC	38%	36%	31%	29%	40%
·	Plessey Combined	37% 75%	40% 76%	35% 66%	46% 75%	40% 89%
• '	Contractions.	170	19/6		10,0	
•	System X (including contract					
	development) Total System X turnover of which:	62	71	65	225	463
				-	-	-
	CEC.	24 26	27 30	28. 37	83 143	235 228
	Plexey* Market share of	20			~	
••	SEC	39%	38%	43%	37%	51%
•	Plessey	41%	42%	57%	63%	49%
÷	Combined	80%	80%	100%	108%	100%
	*Excluding development sales	sab-co	ntracte	to GE	C in 19	83-84 te
	1965.96					

week Monopolies and Mergers Complising report

getting throngh."

be liberalised.

As one industry insider puts enough it demanded liberalisa-it: "Liberalisation has to be tion of the master socket too, fuelled by supplies of equip-where BT still retains e ment. Virtually everyone monopoly, because it said BT believes that BABT has failed in was being too slow in converting getting enough equipment old master sockets which are enough equipment unsuitable for modern telecom-The Office of Telecommunica- munications equipment. The association predicted

tions, the industry's reguletory body, says a company might get a new private exchange epproved in nina months if it made e perfect application and met all the industry standards there would be a loss of tele-phone sales of £60m over three years if BT kept control of the master socket that customers can choose from

immediately—but those are two big ifs. One executive with experience of trying to get his equipment approved describes many more products now than they could at the start of the they 1980s. More controversial is the question of what impact this the procedure as e " shambles," though he adds that it has greater competition has had on greater competition has had on the UK equipment industry. The optimists say that, de-prived of their captive home market, the hig UK manufactur-ers, such as Plessey, General Electric Company, and STC, have had to become more effi-cient. They have modernised their products, emharked on joint ventures with non-UK ecuipment manufacturers and improved. The third barrier to full competition is the simple fact that some areas of activity remain to

From today, for example, pri-vate contractora end do-it-yourself householders are allowed to compete with BT in fitting the sockets needed to install extenequipment manufacturers and sion phones in private homes. This new piece of liberalisation put more effort into exports. There is much truth in this follows complaints by BT's smaller competitors that its conoptimistic account.

trol over sockets gave it an unfair advantage in selling dered part of its market to imports, in return for very little from other countries, most of whose markets, particularly in Europe, remain protected. The share of the UK market sup-plied by imports rose from ebont 8 per cent in 1981 to about However, when the decision was announced in September, it tion representing the indepen-dent sector, for not going far

18 per cent last year, though import penetration remains lower than that for UK mann-

facturing in general. There have been areas where the response of the UK manufacturers appears to have been disappointing. One example is cellular radio. Despite the rapid growth of the service in

Britain, most of the equipment has been made by foreign com-panies, though some of this is now being manufactured under licence in Britain.

Ericsson of Sweden and Motorola of the US have sup-plied the switches. Most of the phones come from companies such as Motorola, NEC and Panasonic of Japan, NovAtel of **Canada and Mobira of Finland :** the UK cellular phone market was worth almost £50m last year

on one estimate. Government officials involved with the polley on cellular radio say that the price the UK had to pay for getting its service estab-lished so quickly was to lose out

on the equipment side. British Telecom has tended to stay with its traditional manu-facturers for ordinary tele-phones, though the share of BT orders going to individual com-panies has changed. However, most of the new phones on the most of the new phones on the market which are being sup-plied by routes other than through BT, such as in the high street multiples, are imported, mainly from the Far East. Soma observers believe this is inevitears if BT kept control of the observers believe this is inevit-ears in the because competition has het customers can choose from hat customers can choose from any more products now than any more products now than is the future of System X, the only digital public switch developed in the UK, which has so far failed to win large orders ebroad, BT's programme for installing System X has et last gone into top gear this year : one new exchange is heing commis-

sioned each working day on average. However, observers heve long considered It sensible for GEC and Plessey, Britain's two higgest makers of telecommunications equipment, to rationalise and even merge their overlap-ping interests in System X. The Monopolies and Mergers Com-

optimistic account The pessimists, however, mission supported this idea argne that Britain has surren-dered part of its market to imports, in return for very little Since GEC's hid failed, GEC

David Thomas

THE most important event for British Telecom in the next 18 months will be e political, not a commercial, one: the ontcome of the British general election. A Conservative victory would probably mean the sale of the Government's remaining 49 per cent stake in the company and further lineralisation of the UK telecommunications market. Labour, however, has prom-

ised to take BT back under pnblic ownership and control. It has also talked of hringing Mercury. the sole competitor to BT's main network, under BT's wing. More uncertain is what a hung

Parliament, with no single party in overall control, would mean for BT. Sir George Jefferson, BT

chairman, launched a stinging attack on Labour's public ownership proposals at BT's annual meeting this year, warning against BT hecoming "e political football like, for instance, British Steel."

Perhaps more surprisingly, there is no great enthusiasm at senior levels in BT for an end to competition end a return of its monopoly.

"If we have fair and reason-ahla competition, we expect less regulation," explains Mr lain Vallance, BT's chief executive.

"Competition should stimu-late the market as a whole. It should stimulate us. And it should stimulate the industry that supplies us," he adds. More competition in the UK telecommunications market has given BT greater leverage over three crucial areas: • Its unions. BT's defeat of the industrial action by the

industrial action by the Netional Communications Netional Communications Union, the largest in BT, taken in 1983 over denationalisation and liberalisation is widely regarded as a turning point in the industrial relations history of the industry. Since then, BT has taken the

initietive in industrial rela-tions, driving ahead with plans on average. for more efficient working prac-tices. The presence of e com-petitor eager to grab BT's husi-ness if it were disrupted by industrial action is a potent threat to hold over the unioas.

"Before 1981, the nnions held undue sway and almost the power of veto over what BT management did. With competi-tion that power is weakened," Mr Vallance argues.
 BT management. Competition

has also helped BT to overhanl its own management, installing a more commercial approach to its husiness. Financial and marketing executives have been brought in from outside the company.

Mr Vallance says he is satisfied that the top layer, the most senior 400 executives, now have the right commercial approach, though he acknowledges that



competition should stimulate the market and us."

British Telecom **Future** hangs on politics

further down the line attitudes its traditional core business,

ance charges, forced Mercury to

announce an immediate 12 per cent cut in its charges for calls

over 35 miles

are still "patchy." that of the public telephone ser-ser still "patchy." that of the public telephone ser-cing BT to cut costs, has promp-ted it to take a harder lina with cent of its £8.4bn turnover. its suppliers, which in the past However, BT recognises that tended to be e small and rather defence of its core is not cosy cinh of UK manufacturers. enough

cosy cinh of UK manufacturers. BT has introduced a second public digital switch, Thorn-Ericsson's System X, to compete with the System X switch of tric Company. BT's programme of installing System X, once 15 months hehind target, has now speeded up: one exchange is commissioned each working day on average. enough. "Although it's good to have a "Although it's good to have a senough. "Although it's good to have a the General Elec-decline," says Mr Vallance. So BT has been working on other areas where it can either obvious target is value added services for businesses, where BT has launched a number of inititives. For example, in

initiatives. For example, in September it announced e husi-While benefiting from comness information service, Hot- did not improve. line, aimed at financial The telecom un petition, BT has at the same time reacted aggressively to it. It has grabbed a dominant maranalysts, marketing specialists, ket share in the supply of some and small husinesses. In Octo-ber, it said it was entering the

ket share in the supply of some equipment, such as the largest private exchanges, which it had previonsly ignored. For soma years, BT has also been "rebalancing" its tariffs, by raising local charges and rentals, hnt cutting long dist-ance rates, where BT was most vulnarable to competition from Mercury. market of managing other com-panies' communications networks. However, the growth of the UK value added services mar-

ket has not been as rapid as some people had predicted. Last year, BT's comhined revenue from vaine added ser-Mercury. Its latest package of price vices, private leased circuits, telez, radiopaging and similar ectivities was fB44m. changes this year, which ranged from an 18.9 per cent rise on local calls at peak times to a 17 per cent cut in some long-dist-

Othar areas of opportunity for BT include its international operations and joint ventures including equipment makers. Nr Vallance says BT is pursuing t is crucial for BT to protect

is a feeling that BT's performance has certainly improved, even if there is some way to go-before its act is fully together.

**David Thomas** 



increasing liberalisation of the flow of telecommunications traffic between countries: defensive, to hold onto the husiness that BT has already; and offensive, to exploit new oppor-tunities which are opening np. Rowever, BT has been relatively cautious in arranging joint ventures or making acquisitions, particularly on the manufacturing side. "Yon can see some of the

±V

prohlams which AT&T have run into by doing some things too fast." Mr Vallance says.

BT's main initiatives so far have been acquiring Dialcom, tha US electronic mail company; taking a 51 per cent stake in Mitel, the loss-making Cana-dian private exchange maker; and entering e joint venture with Dn Pont of the US to make advanced opto-electronic components.

BT explains these either in terms of their strong fit with aspects of BT's existing business (Dialcom) or in terms of needing to keep closely in tonch with key technologies and pro-ducts on the equipment side (Mitel and Du Pont). The Mitel and Du Pont initiatives have the added attraction of increasing BT's presence in and knowledge of the key US market.

Mr Vallance says that several more pieces may need to be edded before tha jigsaw is com-plete, hut these are likely to be joint ventures or start-ups as ecquisitions.

"The ecquisition route is one you have to use prudently, because generally acquisitions fail to meet expectations," he

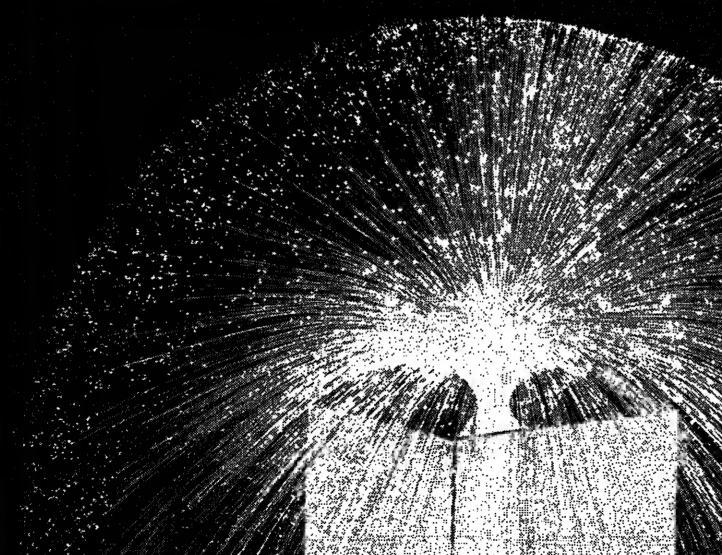
BT's path sinca privatisation BT's path since privatisation has not been entirely trouble-free. There are still plenty of grumbles from customers abont quality of service. In October, Professor Bryan Carsberg, dire-ctor general of the Office of Telecommunications, the indus-try's regulatory body, warned thet the formula governing BT's prices might have to be strengthened if its public com-mitment to onality of service

mitment to quality of service

The telecom unions have also recently published a report, hotly disputed by BT, which argues that privatisation has meant dearer phone calls for the domestic subscriber; new charges for a variety of engineering services; an ebandonment of BT's huy Brit-

ish policy; cuts in BT's research and development; lower stan-dards of service; and worse con-

ditions for BT workers. However, among husiness customers, who have been the target of the competition between BT and Mercury, there



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**\*VI** 

### World Telecommunications 6

### Mercury Communications

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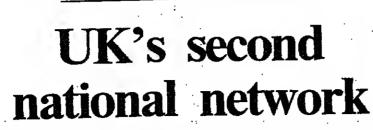
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HISTORIANS LOOKING back at the development of UK telecom-munications are certain to pick out May 1986 as a key date. That was when Mercury, which was previously offering private leased circnits to companies, launched its public telephone service. Future assessments of the

leased chieffield is built telephone service. Future assessments of the UK's innovative attempt to liberalise its telecommunica-tions market will turn in large measure on whether Mercury the nily carrier licensed to pro-vide an alternative to British Telecom's main network, suc-ceeds in establishing itself as a viable alternative to BT. Mr Gordon Owen, Mercury's managing director, has set an end-of-the-decade target of win-ning 5 per cent of the UK tele-communications market, which is likely to be ovar £100m by then. He envisages a 10 per cent share within 10 years, which could turn Mercury within its



chief executive of Mercury Owen. Gordon Communicatons: price advantage is crucial in winning customers.

• Diversification: Many com-panies seem to be transferring some business to Mercury as an insurance policy against major breakdowns in BT's service. This is particularly true in tha City, where a breakdown in tele-communications services would

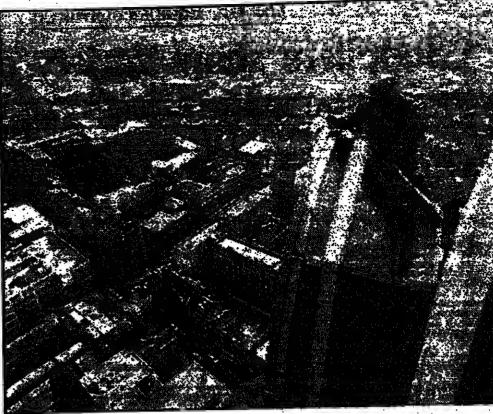
he disastrous. Mercury had invested £130m in its challenge to BT by the end of the last financial year. It expects the figure to have risen to £200m by the end of this financial year.

By the May launch, it had comleted Its hasic fibre optic network, linking London, Birming-ham, Leeds, Manchester and nam, Leeus, manchester and Bristol. It is extending the nat-work north from Manchester to Glasgow, across to Edinburgh, and back south via Newcastle to Leeds. Links to Aberdeen, Cardiff end the south coast of Eng-

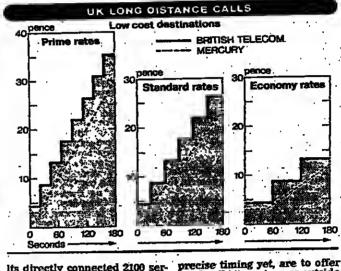
diff end the south coast of Eng-land are also planned. Mercury is st present offering two main types of service: its 2100 service, where customers are directly connected to Mer-cury's network; and its 2200 ser-vice, where customars are indirectly linked to Mercury through interconnection with

The 2100 service has higher Installation charges, hut cheaper tariffs, than the 2200 service. It is therefore more suitable for larger customersthose with more than 30 lines outside the City of London. In the City, because of its fibre optic network, Mercury reckons its 2109 service is suitable, for

bisinesses with as drw as 10 about 290-2100 a quarter) to save whether to give it more of their outside lines. Mercury has completed a need to live within about 25 BT thinks that Mercury's number of steps so far in its miles of Mercury's trunk immediate tariff cnts in resolution towards e full alterna-tive network: from May, it was offering long-distance traffic on



Mercury is starting to challenge BT for some of its most profitable business: Above, a BT rigger at work on the 300ft London Telecom Tower. cury's way as fast as it had



Its directly connected 2100 serlocal calls to customers outside London and to set np call boxes vice; from August, lt offered local calls in London; and in September, it began signing up customers wanting to use its connected 2200 indirectly . service.

to compete with BT's. It is still too early to reach a judgmant on how well Mercury is doing. A few companies have transferred custom to Mercury Before Christmas, Mercury hopes to have won its first residential customers. It is aimin a big way. One such is Boots, which says that more than £250,000 a year in long-distance husiness will now go to Mercury, ing its drive into the residential sector at three groups initially: husin tha staff of its existing basiness with customers; Cahle and Wireless BT. with less than £50,000 going to However, most of Mercury's

shareholdars; and its own staff. Mercury says residential customers are probably trying customars will have to be fairly out its services in a fairly out its services in a fairly limited way before deciding heavy phone" users (spending about 190-£100 a quarter) to save whether to give it more of their

runs out. David Thomas

Battle OI



interrogative. We set them at a level that if Mercury had been doing extremely well, it would not have had to respond," says Mr Iain Vallance, BT's chief executive. However, Mercury says that

oped.

Financial Times Monday December 1 1986

its main problem st the moment is managing the speed of its growth Its workforce, now stan-ding at over 1.200, has increased by a half since March. Indeed, it has missed some installetion dstes, which it hlames on its

tariff changes were

interrogative. We set them at a

suopliers. In the medium term, Mercury like BT will have to face major decisions in the political arena, whichaver party wins the next election.

Sir Eric Sharp, chairman of Cahle and Wireless, has sttacked Labour's proposal to integrate Mercury Into BT, thus restoring BT's monopoly, as "a doctrinaire political gesture" which could cost a Labour admi-nistration more then fibn.

If Labour wins the next election, Mercury's best defence against such a move will be e large number of customers who would feel annoyed at losing its service: hence the key importservice: hence the key import-ance to Mercury of spreading its customer, base outside large companies, which were its natu-ral initial target. However, hy November 1969

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Mercury will have to face s major political decision even if the Conservatives return to power or there is a hung Parliament. For that is the date when the Government's commitment not to licence any other public telecommunication operator

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### **Dutch Joint Ventures**

# Eyeing the French market, too

FRENCH DALLIANCE over sccess to its chsuvinistically guarded telecommunications msrket has managed to rile a host of countries in North Amer-ica and Western Europe, not the ica and Western Europe, not the least of which is the Nether-lands. But American Telephone & Telegraph-Philips (APT), tha US-Dutch telaphony joint ven-ture, remains confident of get-ting the plum 16 per cent slice of the French market after nearly two years of Parisian counct-ting

selling public telephone-switching systems in France, however, could be somewhat of however, could be somewhat of a pyrrhic victory for the joint venture between AT & T, the US itelecommunications giant, and Philips, tha Dutch electronics leader. The huge new invest-ments required would mean higher debt and probably would delay APT's move into the black until 1989 or 1990, Mr Karel Hobee executive vice-presi-Hnbee, executive vice-presi-dent of APT, explained during s

dent of APT, explained during s recent interview. APT is hoping to buy the pub-lic-switching husiness of Com-pagnle Generale de Construc-tions Telephoniques (CGCT) but in exchange has had to promise to set up hig operations in France to become the second supplier to tha French PTT. Tha US-Dutch joint venture, hased in Hilversum, the Nether-lands. was established in the

hased in Hilversum, the Nether-lands, was established in the middle af 1983 and has yet to post e profit although nona was axpected before 1987. Higher-than-expected start-up costs. however, will push hack tha hreak-even point to at least 1988 and later if the French deal gest for up of the VK are believed to have made hids. But the plot thickened when Bonn began pressuring Paris to Second Start and the ties to Siemens because CGE was getting Standard Elektrik Lorenz (SEL) of West Germany as part of a new consortium

and later if the French deal goes through. Mr Hubee predicts that losses for 1986 will oarrow from 1985's for 2001 of Fl 1hn s year The company has failed to meet its goal of Fl 1hn s year The company has failed to meet that seles will sur-pass the Fl 681m of last year. The company has failed to meet that seles will sur-pass the Fl 681m of last year. The company has failed to meet that seles will sur-pass the Fl 681m of last year. The company has failed to meet that seles will sur-pass the Fl 681m of last year. The company has failed to meet that seles will sur-pass the Fl 681m of last year. The company has failed to meet that seles will sur-trance, Mr Hubee said, because that is part of the price for survi-val in the cut-throat competition of the telecommunications industry.

of the telecommunications seconded the argument. industry. "If you want to be ona of the politicel stakes rising almost lips has linked up with Harris five or six players left in the daily, what will APT do If the pate in the hestle," he explained in his hrightly lit office over-looking Hilversum, the hroad- of money end effort lost," Mr and in his hrightly lit office over-looking Hilversum, the hroad-

telephone-answering machine relaying messages only through

relaying messages only through use of e password for security and sorting messages by priority. Sopho-Net is a wide-area net-work that ellows a glohal exchange of data and text, fur example. In hanks' inter-national fureign-exchange deal-ing neretians. In the US, Phi-lips has linked up with Harris Corporation to market Sopho-Net there and io Japan, the Dutch company has joined with Kyocera.

casting capital of the Nether-lands. Mr Hnhea admitted that the and switching. For switching it equipment such as compact

casting capital of the Nether, Mr. Hubes admits. But we have two and digital optical recording several product venture was advected by a compact of the construction. The several construction of the construction of

tioos so that it and soon-to-he competitors can plan new tariff structures. For example, Amsterdam's planned teleport, the high-technology telecom-munications and data proces-sing centre, has been thrown into turmoil for lack of informa-tion on tariffs from the PTT. Informetion-technology com-panies that will be providing the hardware and software for so-called "smart huildings" and video conferencing, among other facilities, must know what they will be charged by the PTT. If the PTT fails to set tariffs for the planned teleport sono some critics speculate that the huge, Fl 3hn projact would be jeoosrdised. jeoosraised.

Laura Raun

France

Battle on with

**US and German** 

interests

THE FRENCH telecommunica-tions industry is at the centre of Moreover, CGE and ITT recently

an international battle whose decided to extend the deal to outcome is likely to have major include the two group's respec-repercussions for world tele- tive cable and optical fibre

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### World Telecommunications 7

### West Germany

# **Rivalry with US over CGCT**

munications industry with a vengeance. New technologies have opened up new opportunities and now Bonn squares up to Washington in a dispute over who should buy something in Paris.

Some of the country's grand old industrial giants, friends for decades, start to claw at each other. An imperial monopoly, the Bundaspost, begins to disintegrate Even the customer - probably more ignored in West Germany than in other developed capitalist economy-knows that "something is up."

The race between Siemens and American Talephone & Telegraph (AT&T) to take over French telephona company CGCT has thrust Bonn at an industry in which it has never taken much interest. Most West German governments have simply delegated communication, and the politics that surround it, to the Bundespost and whoever happens to he Posts Minister. But with the US Government now actively pressing AT&T's case In France, and Bonn doing the same for Siemens the new politicisation of the industry is scaling heights undreamed. Mr Christian Schwarz-Schilling, tha present and rather colourful Posts Minister, has become just one of many players in Bonn as the Economics Ministry, the Foreign Ministry and even Chancellor Helmut Kohl is drawn into CGCTs future. so it is rumoured, ITT's West drawn into CGCT's future. Mr Schwarz-Schilling won his used by new television com-term into term into ter

politicians familiar with broad sion has heen hard at work on bands, coaxial cahles and digi- ways to part the Bundespost tal public telephone switching from its overall monopoly and is

always by virtue of his succes- him-meaning that do netong to always by virtue of his succes- him-meaning that all tele-ses, who has drawn attention to phones, computers, modems, the Bundespost and its teletext receivers, facsimile monopoly over almost every machines could be hought and conceivable form of electronic installed without reference to

years ago, when he proudly announced the arrival on the market of West Germany's first cordless telephones - late, he has been dramstic. regretted, because he and his Ministry had been determined to get the technology absolutely

Within days, conversations on these telephones were being picked up on transistor radios all over the country and the Minister had to do some rapid explaining.

But his most eye-catching ploy has heen to spend roughly DM 3hn a year wiring up the country for cable television. No-one, or hardy anyone, watches cable here not least because Mr Schwarz-Schilling is constantly having to revise cahle connec-tion charges upwards to pay for

stake was too small. Nixdorf though, has hegun to At the same time, a commis-

rattle Siemens with its own tele-coms products, notably PABX systems already designed to convert to full digital switching as it is introduced by the Bun-despost over the next 10 years. Siemens, struggling to find growth markets but having trouinstalled without reference to the Bundespost

This merry-go-round is a long way from slowing down. On the corporate side, acquisitions and ffect on equipment producers US prodocers, aware that now is the time to push Bonn on daregulation, have heen doing so through their Governmant for to survive and grow merely by buying market share. That they will have to inno-

tected.

retailate against telecoms pro-tectionism in Europe is growing and many major West German telecoms companies admit that they staod little chance of

1. Start 1

In West Germany, telecommunication dish aerials at a satellite tracking station overlook a church and cattle at a quiet Bavarian village. The tracking station was involved in monitoring signals from Spacelab 0-1, the first satellite mission paid for and managed by West Germany, for relay to the control centre at Oberpfaffenhofen. The German telecommunications industry has recently become the centre of much political argument. Equipment producers, too, are under pressure with foreign competitors pressing for a way

into the German market.

delayed into the new year. The problem for the French adminational gronps have been made to gain a share of this new nistration is a major one. It is not so much the technical or deregulated market in Frence. IBM and the Paribas banking economic aspects of the CGCT group have linked-up to offer such new services while Olivetti and the French Snez financial group have also teamed together for the same purpose. However, the government despite its free market high rhe-

> Although the movement towards deregulation in the lon-

> ger term appears inevitable-the opening up of the domestic public switch market through CGCT to a foreign supplier is an eloquent sign of how things are changing and moving in France. Tha Government is none the

sector before eventually open-ing np the existing state monopoly to ontside carriers as the US and the UK have done.

In 1988.

communications as a whole. operations. Moreover, this battle which For CGE, the venture is seen essentially involves the opening as a way of keeping the French of 16 per cent of the French group in the top world telecom-public telephone switch market munications league and ensurpublic telephone switch market munications seague and this business. to an international manu-facturer to compete against But the deal has also provoked a France's Alcatel group control-reaction in West Germany led by the nationalised Compag-which has hacked Siemens hid (CGE) is only one if dominant of the deal has also provoked a reaction in West Germany which has hacked Siemens hid reciprocate CGE's major foot-hold in West Germany through

nle Générale d'Eléctricité (CGE) is only one if dominant aspect of the dramatic times the aspect of the dramatic times the hold in West Germany through world of French telecom- IIIT's German subsidiary SEL. In turn, this has provoked a reaction from the American side which has been lobbying in favour of AT&T taking over munications is now living The battle involves the future of Compagnie Générala de Con-structions Téléphoniques (CGCT), Fraoce's oldest but tronbled telecommunications CGCT for the past two years. The Americans have suggested that equipment manufacturer they could make life difficult or formerly owned by ITT of the easy for Siemens on the US market depending on the ootcome of the CGCT affair.

A final decision on CGCT is

US before its nationalisation by the Socialists in 1982. The new conservative govern-ment is now privatising CGCT A final decision on CGCT is now expected to be taken by the French Government around Christmas, although many observers doubt whether this timetable will be kept. They fear tha decision will again be and reviewing hids for control of the group by international companies such as AT&T, Sie-mens and Ericsson.

These companies, hacked by their respective governments-the US and German administrathe US and German administra-tiona have been lobbying the Paris anthorities fiercely—are all seeking to gain control of the tronbled French group because it will give them a 16 per cent foothold on the French public telaphone exchange market and make them the second supplier to the Direction Générale des Télécommunications (DGT), the telecommunications

the telecommunications authority. Two years ago it would have seemed inconceivable to think that the French administration would open up this key domeswould open up this key domes-tic market to a major inter-national foreign group. But the restructuring of the French-telecommunications industry under the former Socialist administration opened the way for the entry of a foreign sup-plice plier.

The merger of the telecommunications assets of CGE and Thomson, the other major nationalised electronics group, removed one of the DGT's two French suppliers since Thom-French suppliers since second telecommunications environ-son was not only a second ment has led to the current man-source of CGE's Alcatel subsidi-betwees around CGCT and CGEary hut also provided the bedvres around CGCT and CGE-licence for the equipment built TFT, the arrival of the new righthy CGCT. The stakes in the CGCT con-

the battle for this 18 per cent sector. share of the domestic public Indee share of the domestic public Indeed, both Mr Alain Made-telecommunications market lin, the Industry Minister, and coincides and indeed is intrin. Mr Gerard Longuet, the post and

"affairs," as the French call them, concerning CGCT and the CGE-ITT joint venture, it has also been increasingly turning to a series of other evolutions taking place in this key French sector. If industrial restructuring, globalisation of markets, the gradual breakdown of barriers even in the highly protected telecommunications environ-

sions.

French recently.

wing vovernment has also accelerated the drive towards test are extremely high for all gradual deregulation in the parties concerned. Moreover, French telecommunications

deal which worry tha Govern-ment, but tha political repercus-"It's a difficult dilemma for the Government. Whatever their decision it is bound to disappoint and anger someone and leave a sour taste behind," remarked the head of a major industrial group "If the attention of the French

telecommunications industry has been focused on the two big less concerned to set up a struc-ture to regulate competition in the French telecommunications

This is likely to take some time and may not occur before the presidential elections due

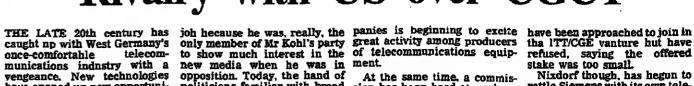
set in place a new regulatory body to act as an independent watchdog agency for hroadcas-ting and telecommunications modelled somewhat on the US Federal Communications Com-



toric is adopting a cantious and gradnal approach to deregula-

But the Government has now

mission (FCC). This new Com-mission called Commission



is growing rapidly. The fight to buy CGCT will Mr Schwarz-Schilling's jurisdic-contribute to this but it has tion stops at the entrance to been Mr Schwarz-Schilling, not huildings that do not helong to

communication. There was the time, about two

right.

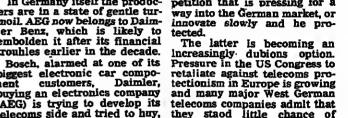
at least some promises from the Bundespost on deregulation. In Germany itself the prodoc-ers are in a state of gentle tur-

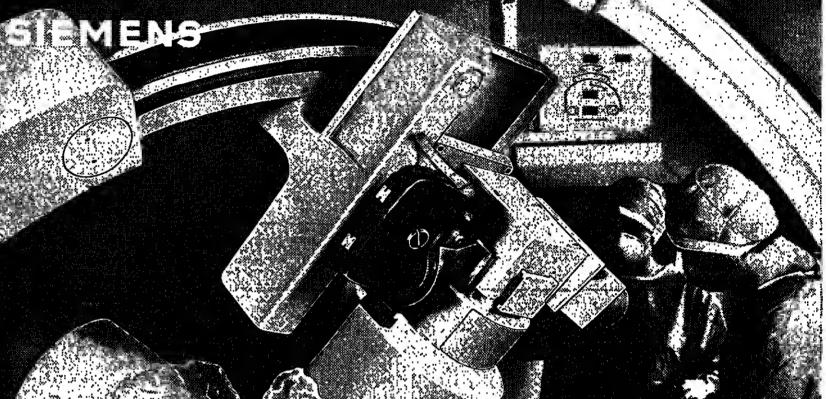
moil AEG now belongs to Daim-ler Benz, which is likely to embolden it after its financial troubles earlier in the decade. biggest electronic car compo-nent customers, Daimler, buying an electronics company (AEG) is trying to develop its telecoms side and tried to huy,

likely to suggest next year that

hie winning switching equip-ment orders in the US and heing frustrated in France, is now promising to start making alec-tronic fuel injection systems in competition with Bosch. It may not get quite that far-Germany does not have a good record in deregulation-but the

mergers are likely but the noise already generated has stirred tha country's strict cartel authorities and it is going to be vate faster than the foreign com-petition that is pressing for a





**\*VII** 

involving CGE and ITT. The French group, which French libers hopes to be privatised in the ket policies. second half of next year, is cur-

second half of next year, is cur-rently completing the setting np of a joint venture with ITT which will create the second largest telecommunications grouping in the world after AT&T. The new joint venture with the vertices of the second the new joint venture with the vertices of the second second half of next year, is cur-mental completing the setting np private competition the market for advanced value sdded tele-communications services in France ranging from videotex to videonbarget for advance of the second second half of next year, is cur-private competition the market of the second second second second second second private competition the market of the second se

The new joint venture will be controlled by CGE and will group together ITT's telecom-munications assets with those

sically linked with another telecommunications minister, Nationale des Communications major telecommunications deal are among the most ardent dis- et Libertés (CNCL) has just involving CGE and ITT. ciples of the new wave of chosen its 13 representatives or The French gronp, which French liberalism and free mar- "sages." sages."

Its task will be complex and delicate, for together with tele-phone deregulation the Chirac Government has launched an amhitious programme to accelerate broadcasting dereg-ulation in France including the privatisation of France's oldest and largest state television net-work, TF-1. communications services in France ranging from videotex to videophones and private huslness communicatious natworks. Already, important associa-ons between major inter-

**David Marsh** 

## Italy Big merger planned

tions

WHILE THE headline-grabbing developments in Europe's chan-ging telecommunications indusging telecommunications indus-try have been elsewhere this year, the Italians have been quietly layiog the foundation for a major rationalisation of their own fragmented industry. The plan calls for an unusual merger of Italtel, tha state-owned telecommunications equipment maker, and Telettra, equipment maker, and Telettra, the smaller telecommunica-tions company which is owned by the Fiat group.

The marger in many ways makes sense: it would put Italmakes sense: If would plit lai-tel, which is owned by tha IRI-Stet state holding group, nnder the same roof as Telettra. Ital-tel'a turnover last year was L1,228bn, while Telettra'a was L497hn. Tha two companies, Italy's only home-grown telecom-munications equipment mann-facturers of aerions scale, could well complement each other's activities.

Italtel draws much of its inmover from switching, whila reletira is one of Europe's leading producers of digital trans-mission equipment. Italtel derives more than half of its turnover from SIP, the state telephone company, and exports amount to only 7 per cent of total revenues.

Telettra, on the other hand, is better structured for competition in the European market, turnover from exports.

Both Italtel and Telettra are profitable, the former having emerged recently from years of losses under the leadership of Mrs Marisa Bellisario, who cut Italtel's staff by 10,000 between 1981 and last year. Last year Italtel mada a L421hn profit, while Telettra earned L20hn.

group. The feasibility study, backed by valuations of the two com-The merger would be by valuations of the two com-designed to co-ordinate market- panies heing prepared by

accountants Arthur Andersen and Price Waterhouse, should be completed by the end of this month.

It is already becoming clear, however, that at the centre of the negotiations, aside from industrial and commercial con-siderations, will be the issue of how much biat might be how moch Fiat might be expected to contribute to the venture. This is because the evaluation are expected to show a substantial difference between the net value of Italtel

and Telettra. Italtel and Telettra already Italtel and Telettra already collaborate in one area, the building of digital exchanges. In 1982 a three-way accord was reached among Italtel, Amer-ica's GTE and Telattra to develop new products. The result has been the Linea UT switchboard exchange (developed by Italtel) and the GTD-5 (developed by GTE). Linea UT sales represent around one-sixth of Italtel group turnover and at the end of

group turnover and at the end of this past summer over 220 Linea UT switches (representing 450,000 lines) were in operation in the Italian telephone

petwork. The GTE-Italtel-Telettra 1982 agreement could be affected, however, by the recent agree-ment reached between West Germany's Siemens group and GTE, under which Siemens is to take 80 per cent of a new inter-national venture. Even if Italy does succeed in

overcoming the hurdles (both financial and political) on the way to a Telettra-Italtel merger, analysts say the Italian industry will still be comparativaly small on the world stage. And while 4 per cent by Mediohanca. This most countries are husy dereg-nlating their systems, Italy is could also become the share-holding structure of the merged farther behind, as it is still consolidating its fragmented sector.

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exchange

ing, research and development, and production between the two companies and would also represent an attempt to create a unit large enough to advance Italian interests on the competitive global telecommunications

market tion in the European market, For most of this year a and derives roughly half of its feasihility study has been underway to evaluate the prospects for a full or partial merger. A company called Telit has been supervising the study. Tellt is 48 per cent owned by IRI-Stet, 48 per cent by Fiat and

Alan Friedman

Innovation Technology Quality: Siemens



The General

Company, p.I.c.

GEC is the texte muck of The General Electric Co

Electric

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Financial Times Monday December 1 1986 World Telecommunications 8

# Surge of fresh interest

Japanese Investment

TELECOMMUNICATIONS is the flavour of the momeot in the flavour of the momeot In Japan, especially among the ma-jor soga shosha (trading houses). Nippon Telegraph & Tele-phooe (NTT) sbares were offered to the public for the first time last mooth at a cool Y1.2m each. The Government plans to offer 1.65m of its shares during the remainder of fiscal 1986, and two-thirds of its portfolio

and two-thirds of its portfolio within the next four years. Soga shosha stand to be the main beneficiaries of NTT's pri-valisation; and, on the back of falling commodity prices, snd a strong yan, they have been rapidly expanding into the tele-communications business.

The top six have collectively invasted ¥260bn in (in the widest sense) telecommunica-tions. Mitsui, the second higgest trading bouse, has set up a new group, the Information Business and Electronics Group, to hand-le its telecom related husioess.

The big battle now is for the lucrative international market. The Ministry of Posts and Telecommunications (MPT), which is regulating Jnpan's telecoms de-regulation, has ruled that the sole international carrier, Kokusai Deoshin Denwa (KDD) will only beve one competitor. There are currently two wouldbe competitors.

C. Itoh, Japan's third higgest trading house, bas joined forces with Britain's Cable & Wireless to lead Kokusai Digital Tsushin Kikaku (KDTK) a consortium which hopes to win the international licence.

NEC. Fujitsu, Bank of Japsn, and Dai Ichi Kango Bank.

planned to hold 20 per cent of will be responsible for the the equity, dropped out. Japanese side.

Tokyo and Hong Kong-the other big partner for this pro-ject is KDD. ITJ, by comparison, plans to use what already exists more efficiently

The trading houses are com-petitors in some projects, part-ners io others. Japan Com-munications Satellite (JC Sat) is by MPT, unsuccessfully tried to led by C. lich, 40 per cent, and woo ITJ into a merger in Mitsui, which has an 18 per cent October. MPT will award the licence early next year. And the pre-sence of C & W, as a foreign

The other satellite group is Space Communications, owned by Mitsuhlshi Trading 75 per cent and Mitsuhlshi Electric 25 per cent.

Would-be satellite operator, linking California to Japan. It Satellite Japan, whose main and Pacific Telecom will handle hackers are Nissho-Iwai, 23 per the American end, while KDTK .cent, Marubeni, 22 per cent, and

ages,

Sony, 20 per cent, was relused a licence by MPT, on the grounds that two main commercial satal-lites were sufficient. The hig six are equity partici-pants in NTT International (NTTI). NTT bolds half the equi-ty, with C. Itoh and Mitsubishi the next largest participants Sogo shoshe, are also heavily involved in value added net-works (VANS). Marubeni is by far the laader in VAN business, and has internetional links with

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far the laader in VAN business, and has Internetional links with America's Tymshare and Tym-net. It belongs to the Fuyo group, as do Hitachi and Oki, both operators of large scala VAN services. Nissbo Iwai is an equal part-ney with Entities in an inter-

will be responsible for the Japanese side. The link sbould be operating an optical fibre liok between Tokyo and Hong Kong-the Sumitomo with Intee and GTE. The frading houses are active in the new domestic carriers-NTT's rivals. Mitsui, Sumitomo and Mitsublshi each have a L1 per cant stake in Nippon Tele-com, which is 33.4 per cent owned by the sooo-to-be-priva-tised Japan National Railways. Mitsubishi has a 2.5 per cent stake in Dani Denden, which is led by Kyocera (28 per cent), the world's largest manufacturer of IC ceramic packages.

World's largest manufacturer of IC ceramic packages. Teleway Japan Corp, which came into operation this month, is invested in by Mitsuhishi, 3 per cent; Mitsui 2 per cent; and Sumitomo, C. Itoh, Maruheni and Nissho Iwai all with 1.8 per cent. The gronp is led by Toyota and Japan Public Highways. Both Mitsuhlshi and Mitsui own 25 per cent each of Tokyo

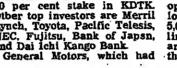
Telecommunications Network. The other half is owned by Tokyo Electric Power. Lisa Martineau

Major suppliers are jostling for shares in Japan's \$1bn a year equipment market. KDTK is battling it out with International Telecom Japan (TI), a consortium of the five other hig trading houses, Mitsu-

other hig trading houses, Mitsu-bishi (Japao's biggest) 18 per cent; Mitsul 18 per cent; Sumito-mo 18 per cent; Marubeoi 12 per per cent; and Nissho Iwal 12 per alectronics group, Matsushita, The tradi have a 4 per cent and 18 per cent cent petitors In ;

C. Itoh and C & W both have a 20 per cent stake in KDTK. Other top investors are Merril Lynch, Toyota, Pacific Telesis,

stake respectively. Tha C. ltoh group, encouraged MPT will award the licence early next year. And the pre-sence of C & W, as a foreign company, ensures the decision be a political one.



KDTK is the more expansive option. C & W plaos to lay the longest ever optical fibre link; 5,000 miles of undersea cable

Japanese Equipment Suppliers

IN JAPAN the telecommunica-tions equipment market is reckoned by analysts to be worth around \$1hn. FIP. Like NEC, the company tions Satellite (Jc Sat) with trad-ing houses C.Itch (40 per cent) and Mitsui (30 per cent), has an international VAN. Signed a \$300m contract with Jc

munications equipment and produces mobile phones in the US.

The battle hots up

ates Nippon Univac and Toshiba

Toshiba. <sup>•</sup> Toshiba sells AT and TPBX's and minicomputer range here, for example. Nippon Univac engineering know-how is behind. Mitsuj's videotex service, which ases AT and T's convergence.

software. But the partnership is not entirely happy. Mitsui was less than pleased when the Indust-rial Bank of Japan assumed a leadership role in AT and T's 50 per cent owned VAN company ENS while Mitsui has been a long-standing sales agent for Northern Telecom—AT and T's major rival in the digital switch-

ing market.

Two acknowledged leaders in the communications industry working together?

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Unusual perhaps, but quite logical, we assure you.

GEC and Plessey are, after all, both in the business of communications, so it was natural that we should combine our resources, talents and knowledge to develop one of the world's most advanced communications systems --- System X.

communications system which handles both speech and digital services with equal ease. Being modular, System X can be adopted progressively, without interrupting existing services; it can be incorporated into analogue or digital networks - and it is so designed as to satisfy the needs of exchange networks well into the next century - thus is innovation born of communication

Together we've created System X a modular digital



It's called System X

Working together to lead the world-

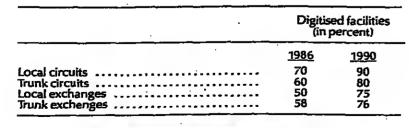
# FRANCE: A LEADING ROLE FOR ISDN IMPLEMENTATION

Long before other countries, network digitisation was introduced by French Telecom and today over 50% of the French network is digitised.

A wide range of ISDN services ere already provided by French Telecom (TRANSFIX-ISDN, TRANSDYN-ISDN, TRANSCOM-ISDN).

Connection of the first 144Kbit/s (28 + D) subscribers will take place before the end of 1987.

By 1990 Primery and Basic eccess will be available throughout the whole country.





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노가리 가지 말.

Japan's Telecommunication US. market as a whole and all are poised to pick np as much of the new deregulated business as they can. NEC is the higgest supplier, taking 19 per cect of NTT busi-news with Y19hn. It is the they can. NEC is the higgest supplier, taking 19 per cect of NTT busi-news deregulated business used by the taking 19 per cect of NTT busi-taking 19 per cect of N ness worth Y119hn. It is the second-largest producer of semiconductors in the world and its computer technology is licensed by Honeywell of the

ramity -1411's name for its suppliers. The Family has 10 members. All are deeply embedded in Japan's : telecommunication. market as a whole and all are

operation called C and C VAN Jt hooks into the large-scale VAN market through its PC net-work, C and C NET, NEC Soft-ware, and its teleconferencing service. It is also involved in an international VAN with Geisco. NTT's second top supplier last year was Fujltsu, Japan's

Fenice Fron Iron NIT. Fenics is Fujitsu's company in the large-scale VAN market. NIF is its PC operation, in which trading company Nlssho Jwai has a stake. Fujitsu has an electronic database service and company company in Fujitsu software operation in Fujitsn

and Anritsu, ¥14bn. Foreign companies find it dif. ficult to break into the NTT Family. But NTT is to huy (over tha next seven years) \$250m worth of digital switches from Northern Telecom of Canada. Annumer of the ange-scale VAN operator AST. The Mitsuhishi-IBM link goes back to the 1970s when Mitsu-hisbi Electric failed to develop a mainframe computer capacity.

worth Around Sihn. The recently deregulated Nip-pon Telegraph and Telephone (NTT) accounts for about 33 per cent of the market, Last year it Fuyo Group and tha large-scale bought Y633bn worth from "the Family"--NTT's name for its Okinet. Oki is the leading-suppliers. The recently deregulated Nip-Mitachi and Oki took Y40hn NTT husiness each last year. Both companies are part of the VAN operators Hinet and Japanese manufacturer of com-market has 10 members.

Worth of nightal switches howInsufframe computer capacity.(INR)Analysts say the equipment is<br/>being used within NTT rather<br/>than for ontside customers,<br/>however. NTT is apparently<br/>worried about Northern tele-<br/>com's ahility to provide back-up<br/>services and does not want to<br/>argose its customers,<br/>The government says that<br/>during the last fiscal year, from<br/>the US alone, increased by 52<br/>per cent, hut this is mainly<br/>The Hughes CommunicationsInstit Freterite late to the device of the<br/>anisor intervent of the statistical year, from<br/>the US alone, increased by 52<br/>the statistical year, from<br/>the deals.Instit Freterite late the of the statistic<br/>amainframe computer capacity.<br/>foreign companies would be<br/>allowed only small share hol-<br/>allowed only small share hol-<br/>allowed only small share hol-<br/>their own VAN operations-Mit-<br/>want to go it alone.(INR)<br/>comparies would be<br/>allowed only small share hol-<br/>allowed only small share hol-<br/>athough this is no longer so-<br/>potential husiness for IBM to<br/>want to go it alone.(INR)<br/>comparies would be<br/>allowed only small share hol-<br/>rates<br/>mainframe companies can operate<br/>their own VAN operations-Mit-<br/>want to go it alone.(INR)<br/>comparies<br/>the stellite<br/>want to go it alone.The Hughes Communicationsis mainly<br/>is is mainly<br/>potential nurangements is that Mit-<br/>point arrangements is that Mit-<br/>sui can offer AT and T local(INR)<br/>to mather<br/>the drama states NEC has a large-scale VAN

largest computer maker, which earned Y77bn from NTT.

The Hughes Communications sui can offer AT and T local of the US, which is a 30 per cent engineering support and a owner of Japan Communica- customer base through its affili-

Scandinavia

Although NTT was dereg-ulated last April the live com-

signed a \$300m contract with Jc Sat to supply two satellite pack-

The other satellite company,

Spsce Communications Co (SCC) (owned by Mitsubishi Trading 75 per cent and Mitsu-bishi Electric 25 per cent), has bought e \$100m satellite pack-age from Ford Aerospace.

AST. The Mitsuhishi-IBM link goes back to the 1970s when Mitsu-hisbi Electric failed to develop a mainframe computer capacity. (JNR)-led Japan Telecom. The the Japan National Railways a mainframe computer capacity. (JNR)-led Japan Telecom. The

company is now leasing lines connecting corporate customers in Tokyo, Nagoya and Osaka 2t rates 24 per cent lower than Daini Denden, led by

Kyocera, is the world's largest mannfacturer of IC. It hought switches from the Digital Switch Corporation of the US for what the company describes as "several million yen" The other two NTT rivals,

Teleway Japan and Tokyo Tele-communications Network, came up this month.

Lisa Martineau

# Big demand for mobile phones

IN SCANDINAVIA, it is not unusual for husiness contacts to have as many as four telephone numbers to give out-office, home, weekend cottage, and (ever increasingly) e mobile telephone number. The mobile telephone hes sur-passed all expectations in

popularity-as one Swede put It we spend a lot of time in our boats, and of course it's conve-nient to take a phone with yon." Televerket, tha Swedish tele-

communications administra-tion, estimates that by 1990, onein-teo cars will contain a mobila phone.

The main Scaodinsvian sup-plier of mobile handsets is Nokis-Mohira, part of the Finn-ish Nokia industrial group. It is the leading manufacturer of handsets in Europe, bas 27 per cent of the Nordic market, and aloins to have over 15 per cent claims to have over 15 per cent of tha world msrket for cellular telephones.

telephones. Ericsson, the Swedish tele-communications and electro-nics group, supplies switching systems based on its AXE sys-tem which automatically switches from one radio trans-mitter to acother so that calls are not interrupted as the sub-scriber moves from cell to ceil.

formed by the telephona admi-nistrations in the Nordic coun-tries in 1981 (bnt only joined by Iceland in mid-1985), has alreedy reached the subscriber leval that was originally fore-cest for 1995. In the meantime, Nokia-Mohira says it is now subjected to handset quotas in parts of scanecity in these sreas. "Ovarcapacity is a very big problem," says Mr. Kenneth Jonsson Nokia-Mobira's export manager for the NMT area. The secool problem is that

New England telephone and New England telephone-serves 13 per cent of the US populatico, signed a letter of intent with Ericsson's US sub-sidiary for an AXE switch which will be tested in the Manhattan network The secool problem is that growth in the US merket has not matched expectations, which Mr. Jonsson hiames partly on the fact that in the States, there

the fact that in the States, there is not necessarily any automatic "roauang"-ie when the set moves from city to city, it may not automntically switch to n new basa station if this helongs to a different company. Within The capacity problem could be solved with the subdivision of areas into mini-cellular sys-into use at the beginning of 1987, In addition to the existing 450 megaheriz frequency.

mitter to acother so that caus are not interrupted as the sub-scriber moves from cell to cell Ericsson ciaims to have 45 per cent of the world market in cellular subscribers. Nearly 100,000 of these are in Sweden, and about 80,000 in Norway, 54,000 in Denmark and 44,000 in Finland, according to their September 1986 figures. The subscriber according to the figures and whilspers in future. Subscriber according to the subscriber according

Ericsson also sells the hand-sets hnt is more interested in being the main supplier of sub-cifications.

Ericsson's order for tha Norwegian public betwork is worth Skr 90m. EB Telecom, worth Ser Son, EB Telecom, Ericsson'a Norwegian licensee, agreed to supply four main exchanges with more than 50,000 local and transit lines for Oslo, Stavanger and Bergen. There is also a contract option for an additional 20 CON lines for for an additional 20,000 lines for delivery in 1987. The Swedish Telephone

The Swedish Telephone Administration has continued with its installation of AXE digi-tal switches. It is now con-centrating oo non-volca data end text communication and plans to put more than 50 per cent of its investment in non-telephone services over the

cent of its investment in non-telephone services over the next three years. The high growth in data and text communication requires a better network—which was why Televerket started its initial in-vestment in digital switches and pabxs.

vestment in digital switches and pabs. Comvik, a Swedish mobile telephone systems supplier with 13 per cent of the market in Sweden, wanta to offer a satel-lite busicass-to-busicess ser-vice betweec the states and Sweden usicg intersat. The aim is to provide hnsinesses with more efficient telephoning services, Instant contact with subsidiaries, com-petitico on pricing, and maybe ao encrypting service so that Conversations cannot be over-heard. The plan to go ahead is still walting for Goveromant permission. permission

Sara Webb

### **World Telecommunications 9**

International collaboration

# **COLLABORATION HAS rarely** been more popular in industry - 55-2

• EUROPE'S first Scitex telecommunications link for digi-tal transmission of full-colour picture data has gone into eperation at a London photographic processing centre for printers and publishers.

The system (above) at F. E. Burman links Scitex electronic page composition equip-ment with other equipment users in the US and Australia. Burman is already using the system to promote a colour news picture service to UK publishers. unushers. The Scitex telecommunica-

tions package offers a wide range of lines and speeds, including land and satellite

links for transmitting news pictures in colour. Burman's transmissions so far have all used standard telephone line

The company is able to give editors a preview selection of colour news pictures in 'rough' low-resolution form before sending a final, high-resolution transmission.

· Below: in Japan a sales girl displays a range of nine new-style telephone handsets from the Nippon Telegraph and Telephone (NTT) which has around a third of Japan's \$1bn telecommunications equipment market.

than it is today. Cross-frontier joint ventures, minority stakes in companies with strong local market positions, co-operative research and development proects, combined investment in beavy capital programmes, govschemes the list is long, grow-ing, and particularly extensive in the telecommunications Industry Yet over the years, the record of collaborative enterprisas has

not been particularly inspiring. Industry is littered with examples of projects that bave come apart under the pressure of events. Why then are the telecom-

munication companies today finding themseives pushed so inexorably into the embrace of partners with whom, in an ideal world, they would prohahly pre-fer not to be involved? Part of the reason is the sud-

den, but irreversible globalisa-tion of world markets. In the public switch market, for inst-ance, most of the large telecommunication equipment manu-facturers who are now rushing Into alliances enjoyed the security of relatively frieodly home markets until the develop-

ment of the present range of digital equipment. These markets, they are now finding, are hardly sufficient to support the cost of continnously enhancing the efficiency of the present range of products, and certainly will not bear alone the expenditure on the next generation of telephone exchanges.

Joint ventures in a global market Market pressures of this kind ticularly West Germany through piete packages to a cnstomer. signed a series of dealato create supporting a competitive Euro-lie behind several of the col- ITT's subsidiary there. Among the main companies its "global bighwey" concept of pean information technology isborative attempts of the . In the UK, the attempted

recant past: AT & T, the US long distance would have ellowed the integra-and exchange equipment manu-facturer, has linked up with Phi-tions subsidiaries, both of lips of Holland to try and break which are working on the Sys-into the European market. The tem X exchange; they are now joint venture is now trying to talking of some form of co-take over CGCT in France. operation. take over CGCT in France. operation. • CGCT, which has 16 per cent of Another area of collaboration

the French market, is also being is arising out of the convergence pursued by other telecom- of telecommunications and pursued by other telecom- of telecommunications and munications companies, not- computer technology. Two ehly Siemens of West Germany, industries which grew up inde-which is trying at the same time pendently are now coming to break into AT & T's home together because users no lon-market in the US. gar want to treat data processed Siemans has had to abandon on computers as isolated gob-its plans to llok up with the bets of information. switch manufacturing subsidi-ary of GTE the large independent of the large independent.

The computer industry is shifswitch manufacturing subsidi-ary of GTE, the large indepen-dent US telephone operating company, but many analysis expect talks to resume at some point. ting towards the concept of netdent US telephone operating company, but many analysts expect talks to resume at some point.
CGE, the Freoch electrical group, is planning to take over the switch-making subsidiary of the uS-based conglomerate, in a deal which will allow take in the business. This will to see the possibilities to for a transitional sector the subsidiary of the uS-based conglomerate. In a deal which will allow take or the subsidiary of the usiness. This will to see the possibilities the telephone compares the telephone compares the telephone compares the subsidiary of the usiness that flows

ITT to maintain e 37 per cent of networking, and are anxious stake in the husiness. This will to secure the business that flows give CGE a potential stake in to their basic communications several European markets, par- operations if they can offer com-

moving ioto this type of venture e fibre optic cable network have been AT&T, which, spanning the world from west-through an agreement with ern Europe to Japan. Olivetti of Italy now has access A third kind of colishoration

to a range of personal computers. A recent decision by the US regulatory authorities has allowed AT&T to drop artificial harriers it had been forced to construct between its telephone and computer activities. It will therefore ba freer to move into the networking business with the full strength of the corpora-tion's resources bebind lt.

Another example is IBM, the forefront of technology is rising computer giant, which has links beyond the point where many with two telecommunications companies can stay in contencompaoles-MCI, the long-dist- tion, ance carrier, and Rolm, the At manufacturer of private bas

At the corporate leval, this bas given rise to projects such exchanges. as the common, cross-frontier

Third, companies are forming alliances as a swift way of filling in gaps in their own products and services. British Telecom, for example took over Mitel in Caoada to give it an entree to the customer premises equip

the customer premises equip-ment market. Similarly, Cable and Wireless of the UK, historically an oper-such as the Europe-wide Esprit ator with lines linked to British overseas Interests, has now for example, which is aimed at

industry, is working on office

systems and communications; RACE (R and D for Advanced Communications Technologies A third kind of collaboration, for Europe), is examining the technological base for initiaincreasingly popolar in recent years, is growing up in research and development. Here, the tives on the EEC-wide broad-band communications network. idea is to develop technological competence at a reduced price whila retaining the independ-ence and individual identity of these co-operative projects is to show that they can deliver nse-

ful solutions to problems which the companies concerned. This form of co-operation has arisen out of the recognition that the cost of remaining at the may require some extremely difficult commercial and political decisions. Bringing companies together

usually means that there are possibilities of capacity reduc-tion, but it is not easy to cut jobs when the decision raises questions of national industrial competence.

The challenge facing all of

Similarly, alliances eimed at design work on telephone exchange equipmant launched jointly by Plessey (UK), Siemens (West Germany) CGE (France), and Italtel (Italy). filling out prodoct lines tend to be a prey to arguments between the partners over financial con-trol-and research and developmeot joint ventures raise tricky prohlems of iotegrating corpo-rate cultures. The new wave of collaboration may have some rough riding ahead of it.

Terry Dodsworth

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**\*IX** 

# China's vast potential

what is potentially the world's largest telecommunications largest market.

The world's telephone network is companies, encouraged by soft industry. At present the country poorly developed, with an aver- loans and export credit from is divided into seven regions age penetration of only five tele- their governments, have controlled by the Ministry of phones per 1,000 people of its descended on China's major Posts and Telecommunications lbn-plus population. But, like so ettles. (MPT). While the MPT is manch else in China, this situa- To date, Japan with the ald of responsible for national policy and standards, each region has a time is changing.

phones per 1,000 people of its descended on China's major ibn-plus population. But, like so cities. much else in China, this situa-tion is changing. China is vigorously pursuing a long-term objective of becoming an advanced industrial nation by the turn of tha century. Since the turn of tha century. Since with the sale of digital 1978, when Deng Xiaoping effec-tively gained conirol of the party equipment from Alcatel-Thoman advanced industrial nation by the turn of the century. Since 1978, when Deng Xiaoping effec-tively gained control of the party machine, e series of major reforms have been transforming

reforms have been transforming the country. Subscribing to the view that improved telecommunications are often the key to economic growth, particular attention is being paid to nograding the tele-phone network. The telecom-munications infrastructure has recently been confirmed as one of the top priorities in China's Seventh Five Year Plan (1966-90) and US\$30bn are to be invested in modernising it.

in modernising it. Indeed, in a recent statement Yang Taileng, the Minister of Posts and Telecommunications, no doubt with a touch of the Departmental competitiveness not unknown among Western Ministers seeking a slice of a the two of central budget, declared that communications growth should be faster than that of the eco-nom whether the two of the

nomy as a whole. A generous assessment by most international observers is that China's telecommunications network is some 20 years behind most other industrialised nations, technologically speaking. Its network uses manual switching equipment and auto-matic equipment that is over 50 years old. But this is rapidly changing. China's first sophisticated

system was completed in 1976 and comprised an 1,800-channel coaxial cable connecting Beijing to Hangzhon via Shanghal. A national telephone centre was inaugurated in Beijing and, by ity in a deal which could be 1980, with the installation of worth between £20m and £25m. Intelstat ground stations, direct Strong emphasis in the mod-links to 47 countries were estab-lished.

Although China manufactures and cities such as Beijing, Shanghai, Guangzhou, the special eco-nomic zones of Xiamen and Shanzen and the 14 "open" coastelecommunications some telecommunications gnal, Guangzhou, the special eco-equipment such as crossbar nomic zones of Xiamen and exchanges, it is et present Shanzen and the 14 "open" coas-beyond ber capabilities to pro- tal cities where telecommunica-

CHINA'S major computer and duce much of today's equipment, telecommunications exhibit notably digital exchanges. tion-Expo Comm 86-held in To meet these deficiencies, Beijing last month, attracted China has embarked on an many of the world's foremost "import drive" of some magni-telecommunications suppliers, tade. The new "open door "poli-telecommunications is policifially the world's porceasing a coldruct environment for some many of the world's foremost "import drive" of some magni-telecommunications suppliers, tade. The new "open door "poli-met is potentially the world's porceasing a coldruct environment for some time to come. The co-ordination of China's metwork into a coherent national approaching a goldrush environ-ment in which a procession of the world's telecommunications companies, encouraged by soft loans and export credit from infrastructure is likely to be

hampered by the bureaucratic nature of its telecommunications

large measure of eutonomy. This has been known to lead to fragmentation and unevenness in the development of e national system

equipment from Alcatel-Thom-son; Sweden with its digital exchanges from Ericsson and the united States in collaboration with Holland supplying fibre optic transmission equipment through AT&T and Philips. The UK has had limited suc-cess, through GEC's sales of pnsh-bntion telephones, STC's fibre optic transmission equip-ment and BICC's contracts to supply cahle. Cable and Wireless are cess, that and Wireless are

Supply cable. Cable and Wireless are implementing a joint venture with China in setting np the ment The deal, with Bell Telephone of Belgiam, an ITT subsidiary, involved the local manufacture

Shenda Telephone Company in of System 12 exchanges and it is expected that ontput will reach However, the recent trade and economic development seminar

expected that ontput will reach 300,000 lines a year by 1968. Other deals of this kind include Alcatel of France's con-tract to supply 500,000 telephone lines together with the transfer of manufacturing ahility and between China and Britain, the largest-ever mounted between the two countries, is likely to boost the UK's figures significantly The two-day event which took immunications research place during the Queen's visit to China has led to various con-tracts and agreements being facilities, and, of course, Cable and Wireless's joint venture

referred to earlier. signed. These include Plessey's col-laborative deal with the Post and China bas also recently emerged as a leading contender in the space industry alongside Telecommunications factory in Arianespace and the Japanese

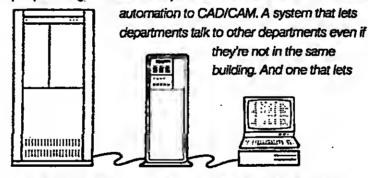
Shanghai to establish a centre for service, maintenance and for the launch of commercial satellites. technical development of a range of digital equipment, Cable and Wireless' contract to Following the American space shuttle disaster and the US Gov-ernment's decision to reserve develop tha telecommunications shuttle launches for scientific and military satelline the Chinese have had discussions with the UK, the US, Italy, Pakissystem in the Yangtse Delta regions and SIC's five-year technology transfer agreement to manufacture telecommunicatan, Brazil, Australia, Argentina tions equipment, as well as to set up an advanced production facil-ity in a deal which could be and Canada to explore the possi-bilities of China launching their satellites.

> Using their own expendable Long March rockets, China claims it can launch satellites 15 per cent cheaper than her competitors.

> > Jon Moggridge

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### World Telecommunications 10

success.

Switching Technology **Integration** of

# voice, video text and data

THE GROWING tempo of tele-

×Х

scriber equipment. There is still tittle clear evi-dence of integration developing hetween European stetes. There is, however, a lot of interest in service integration, and according to the Logica sys-tems consultancy group, most countries are planning to start an integrated services digital network (ISDN) before the end of the decade.

" Most of the efforts towards European harmonisation are concentrated on co-ordinating the varied developments towards ISDN, and the subse-quent plans for broadhand networks throughout the continent," says Logica in a report published earlier this year, entitled European Communcia-tion Services—Towards Integration\_

Telecommunications plays a major role the economics of the EEC member states and now accounts for 2 per cent of gross domestic product, increasing to 7 per cent by the year 2000. Manufacturers in the telecom-munications sector continue to

munications sector continue to he auccessful in world markets and are at the leading edge of technological advance. However, there are disturbing

portents for the future, says Logica. Telephone penetration in the EEC is substantially lower than is Japan and the US. Growth in the equipment market requires the seems slower in Europe at 5 per cent, and is hampered by market fragmentation along national houndaries and hy lower levels of investment. Data transmission is a smaller proportion of total traffic in European Suppliers, who are strong in traditional technology, are almost wbolly reliant on non-European manufacturers for mlero-electronic components. Growth in the equipment mar-ket seems slower in Europe at 5

Digitalisatinn has revealed

THE GROWING tempo of tele-communications liheralisation will widee considerably the choice of equipment and ser-vices available to users. Bringing together the increas-ing number of telecommunica-tions services-woice, data, text and video-onto a single net-work should yield substantial savings in the cost of running the services and providing sub-scriber equipment. There is still title clear evi-dence of integration developing hetween European stetes. There is, however, a lot of interest in service integration, and according to the Locica sys-

An European Parliament resolution in March 1984, deplored the community's fai-

lure to take rigorous action in defining standards for the conformidable. nection of subscriber equipment. it pointed out that wholly incompatible videotex stan-dards from the UK and Frzece

bad developed within the EEC, and commented also that "it is particularly absurd that mobile radiophones abould not he the process. particularly ansure that mobile the process. radiophones should not be In July, the future of ITT's usable throughout the Euro- System 12 local telephone pean Community." exchange switch was put in It proposed that "national jeopardy hecause of a design

It proposed that "national centres responsible for granting type approval of equipment he required to comply with the same standards and practices throughout the community, and that in the long term they gra-dually merge to form a common integrated centre." 12 development project was criticised as heing too ambi-tions, with top management aed

dually merge to form a common integrated centre." In August 1984, a memoran-dum of understanding was signed hetween the Commission and the Conference on Euro-peae Posts and Telecommunica-tions in the US and Europe. Deae Posts and Telecommunica-tions in the US and Europe. According to the crilles, undertook to carry out technical work leading to the drafting of tions for the trailest the fully sudertook to carry out technical distributed processing system and the conference on the trailest the fully sudertook to carry out technical distributed processing system the trailest the fully this means

approval of telecomtype munications terminals.

Public switching equipment sales in the UK						
£m		1982-83	1983-84	1984-85	1985-86	
All public switching equipment	at .					
(including contract developmi Estimated market size	565	575	555	560	650	
of which:	215	209	173	-162	258	
GEC sales Plessey sales*	209	230	195	256	261	
Market share of						
GEC	38%	36%	31%	29%	40%	
Plesser	37%	40%	35%	46%	40%	
Combined	75%	76%	66%	75%	80%	
System X (including contract						
development)					412	
Total System X turnever of which:	62	71	65	.226	463	
GEC	24	27	28 37	83	235	
Plessey*	26	27 30	37	· 143	228	
Market share of						
GEC	39%	38%	43%	.37%	51%	
Plessty	41%	42%	57%	63%	49%	
Combined	80%	80%	100%	100%	100%	

\*Excloding development sales sub-contracted to GEC in 1983-84 to 1985-86.

Source: Manu

Put in a nutshell, this means that if all the units, the call

offer huge opportunities for suppliers of exchange equip-ment, hut as some have found, the costs and technical ohsta-System 12 has been delivered to 13 countries and 1TT says It to 15 countries and FIT says it has nrders for 12m lines. At pre-sent, only e million lines are operating, and ITT admitted to delivery delays in Norway. Denmark and Spain. cles of developing new genera-tions of equipment can he For example, the Compagnie Generale d'Electricite (CGE) recently won the French Gov-

Despite the European Com-munity's efforts in hreaking down telecommunications.barernment's go-ahead to leed a riers, it may take the muscle of consortium to take over ITT's outside companies from the US telecommunications activities. and Japan to bring this about and inherited some prohlems in CGE for example, has sought

the French Government's approval for a deal with AT & T under which the latter would huy microweve transmission equipment from CGE's Alacatel aubsidiary in exchange for the flaw in its development. CGE engineers said they would be able to deal with any remaining problems with the product, but ITT's \$1bn System

subsidiary in exchange for the US company's cetry with its parlner Philips into France's domestic market for public switching. Under this scheme, Compag-nie Genrale de Constructions Telephonique (CGCT), an ailing former subsidiary of ITT, would produce the AT&T/Philips ESS-5 switching systems.

More recently, Italtel, the Italian telecommunications com-pany, has entered the hidding to acquire CGCT. Other parties jecinde a CGE/AT&T consortium, Slemens In Germany, and Ericsson in Sweden.

Rapid developments in technology and changes in legislatioe have combined to transform the telecommunica-tions industry throughout Europe and the world over the

past few years. To survive, the equipment suppliers will not only have to exploit the latest techniques in their products aed services, but he prepared to re-organise to meet the demands of an increasingly dynamic market.

**Boris Sedacca** 

# Internal data exchange systems

Private Networks

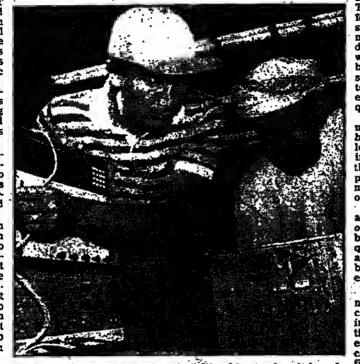
aite. When these systams are networked it is possible for these facilities to span the whole system so that it will be as It should be noted that a telephona company, sech as British Telecom, aims to cater for Quick and easy to contact a col-league the far side of the counmajority needs and so may not he able to devote resources to try as one in the cext office.

satisfy a greet number of unique requirements. Thus, private networks are frequeetly osed as the means of meeting these tion of digital transmission and digital PABXs modern systems offer far more opportunities for the bandling of data, text and image traffic in addition to speech. There are many specific situa-Companies such as Northern

There are many specific situa-tions, such as interrogsting remote computers, where it would be ineppropriate to use the public switched telephone network (PSTN) because, even if the voice grade lines were of a suitable quality, the time taken to "set-up" the call would be far too long. to long. A typical global network will provide a communications infrastructure with major nodes

and tributarles in a number of countries.

The network operators will aim to be-able to provide his organisation with the same level of facilities end security



Telecommunication technicians checking a circuit board . inside a telephone exchange in Oman in the Middle East.

AT ONE TIME, telecommunica-tioes was considered by many managements to be acother over of the office overheads which should just be "kept ie check" Today it has beee recognised that efficieot communications within a company are vital to its success.

communications at an early stage. This will be very much in adv-

This will be very much in adv- just one division conjecting ende, of ISDN being widely, with another. On the other hand, available on the public network in a liberalised market such as So what benefits will be the the USA and now the UK, the user obtain? Early private networks took tive supplier. Thus, the prime carrier finds the telephone switchboards at itself " bypassed." As well as Now, however, with introducthe various sites operated by a

company. As they were used on heavily-used rontes they enabled a com-Telecom (via its UK partner, GEC Telecommunications) and Plessey have need digital PABXs for a number of years. More receetly they have heen offering systems which are compatible with the integrated services digitat network (ISDN), and are claiming that existing models are upgradeable to this standard. TCDN is a concept being to dial through to the desired extension. Plessey have heen supplying digital PABXs for a number of

desired extension. Obviously, a resource that was not being fully ntilised also attracted a lot of attention. Thus, when it was not needed for voice, it could be used for, say, connecting facsimile say, connecting facsimile machines. Equipment was also developed (data over voice) which allowed text messages to be sent by teleprinter along the

logue telephone lines, have increased in sophistication with the result that an ordinary telephone eircuit can now carry more than ten times the amount Where there is an appreciable amount of traffic to be carried

over any particular path between two PABXs, it is frequently cost-effective to install a leased circuit. Once this has been done a private network exists-even if rudimentary.

From then onwards, additional traffic—and not just voice— can be carried and equipment installed that will increase the throughput of a line. For example, during the night data can be sent to enable computer file updates to he carried out.

Financial Times Monday December 1 1986

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voice. The result of this is that com-panies installing the latest from supplying leased lines, geceration PABXs and inter-connecting them in private net-works will be able, to take public switched telephone net-advantage of advances in tele-work (PSTN).

In the case of a public tale-communications monopoly it is just one division competing with another. On the other hand,

Thus, the prime carrier finds itself "bypassed." As well as haing an emotive issue with the carriers it is seen as a major threat to their revenues as they feel that the most lucrative markets are being creamed off.

While having one's telecom-manications services from more than one supplier can give a negotiating advantage, there is always the risk of buck-passing-when faults occur.

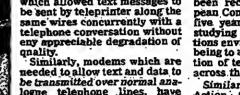
This is a problem that pose difficulties with international networks where there are a number of earriers involved. However, in the case of an international network even if one had a turn-key contract in this country with BT for an entire network its jurisdiction would not extend to other countries.

This is a situation that has been recognised in the Euro-pean Community. Over the past pean community. Over the past five years the EEC has been studying the telecommunica-tions environment with one aim being to achieve the harmonisation of technologies and tariffs across the whole Community.

Similarly, the Commercial Action Committee of CEPT (Conference of European Posts and Telecommunications) is working on a managed data ser-vices strategy. Networks would then be provided by a single co-ordinated external body set np by the European PTTs. While this would provide the har-monisation and co-ordination required, it would be at the expense of there being a single dominant supplier.

There is the risk that such a supplier, not being subject to the pressures of the market-place would underdeliver and thus hold hack progress. Hence, harmonisation could come at the expense of innovation.





Similarly, internal memos can be handled by electronic mail Cellular Radio Services Nordics show Europe the way

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THE SUPERPOWER summit was not the only event which bappened in Iceland this year. In July, Iceland became the latest country to offer a cellular radio service.

The Icelandic authorities report explosive growth. They had been expecting 500 subscribers hy the year-end. After two and a half months, they already had 1.450.

The Icelandic experience is unusual only in the use to which some of its people are putting the cellular phones: small fishing vessels ere using them up to 60 km from shore. Icelaed's new service was very typical in releasing exploalve demand.

"Almost everywhere, predic-tions here: under-estimated reality," says Mr Nigel Cawth-orne, who edits Europeen Mobile. Communications, e monthly newsletter on the industry.

In many industrialised countries the sight of executives hol-ding conversations on their cerphones while driving between meetings is now becoming commoeplace.

The Scandinavian countries were the first off the mark in Europe, Sweden, Denmark, Nor-way and Finland ioaugurated the Nordic Mohile Telephone network in 1982.

network in 1982. Wilb this head start and fuel-led by their high standards of living, they now heve the high-est penetration per 1.000 population of any countries, according to Mr Cawthorne's figures. In Norway, it is 19.14; in Swedee, 11.85; in Denmark, 10.42; and in Finland, 9.25. Scandieavia has also doublest some thriving could-

10.42: and in Finiand, 9.23. Scandicavia has also developed some thriving equip-ment manufacturers on the back of this large customer base. Mobirs, part of the Nokia industrial group of Finlaod, is the leading mobile telephone events in the source the source of the s But tha most receot success

story, on the service if not equipment side, is Britain. The equipment side, is Britain. The UK service began only at the atart of last year, hut it already has more than 100,000 subscribers.

Most observers praise the UK Sovernment's decision in licen-sing two competing networks-licent and Racai Vodafone. htt Millicom was coustacting selling its stake. Hnwever, the rest of Europe, including the Scandinavian countries, has adopted a diffe-the UK a Government's decision in licen-sing two competing networks-Celinet and Racai Vodafone. Tha pace of development would The pace of development would almost certainly have been much slower if one operator had been given a monopoly. Mr. Colin Davis, Celluet man-

aging director, told a recent conference ne radio com-munications in Stockbulm: "I believe that demand was latent, waiting for the opportunity to express itself, but competition stimulated awarecess among poteotial customars. It also stimulated the UK system operators, both of whom have had to grow their systems very quickly

in order to satisfy demand." Celinet and Racal Vodafone system have each invested more than £100m on hese stations, switches and other equipment needed to win as many of the new custom-

Even so, the Stockholm con-farence heard predictions that West Germany would have 200,000 subscribers, and France 120,000 subscribers, by 1990. On past experience, these figures are almost certain to he underers as possible. Earlier this yeer, their com-petition became so fierce that it almost precipitated a price war. More than 500,000 autocribers estimates. In the US, the service is

limited mainly to large towns because of the geography of the country. Development was patchy to start off with Mr Herschel Shosteck, whose by 1990 is the figure now being confidently predicted by execu-tives within the industry. tives within the industry. Cellnet and Racal Vodefone -are likely to be making aubstan-tial profits well before then. Indeed, £125m was the figure heing suggested as the value of the 15 per cent stake held in Vodafone hy Millicom, the US mobile communications group, when it was recently reported Herscheit Snosters, whose research end consultancy com-pany tracks cellular develop-ments in the US, hlemes the country's "bizarre and chaotic" regulatory arrangements.

Under the US regime, like thet in the UK, there ere two competing networks. The differwhen it was recently reported that Millicom was considering ence is that the operators of the networks need not be the same in the more than 300 metropolitan areas designated by the

authorities. , However, Mr Shosteck says rest model to the UK: a monspoly service based on the

, Hnwever, Mr Shosteck says that more stability is being introduced into the US system as hig companies are gobbling np the small companies which telephine authority. France and West Germany have heen the laggards in celtu-lar phones, portly because of the cullapse of an amhitlous as hig companies are gonbling up the small companies which entered the market. In particu-lar, the giant Bell regional operating companies are show-log great interest. One, Bell-South has moved into the UK hy huving a 40 per ceet stake in A in sitempt to agree nn a joint sys-tem. West Germany is now developing apace; in October, there were 15,000 subscribers, huying a 40 per ceet stake in Air Call, tha UK radio communiup from 12,400 the previous munth. But France, where the number of customers remeins cains group. Users of cellular phones are very small, still appears to have technical problems in its

ils now increasing ateadily by mor

than 20,000 a month in the US. according to Mr Shosteck's figures. He predicts there will be more than 600,000 by the year end and 1.5m by 1990.

While most countries are concentrating simply on expanding their hasic network, much thought is already heing devoted to medium-term medium-term developments. Transition from the analogue

systems currently in operation to digital is one such idea which is ectively being explored. Digi-tal cellular networks would tal allow more reliable transmis-alon of data, easier interconnec-tion with the increasingly digi-tal public telephone networks and possibly also cheaper ser-Vices

Linked to this discussion is the desire for more cross-bor-der cellular networks. Author-ities in Europe are considering an amhitions proposal for a pap-European digital cellular radio network, which would allow e German lorry driver travelling along an English motorway to phone his depot back in Frankfurt

Formidable difficulties have Formidable difficulties have to be sorted out, however before this pan-European dream becomes a reality, including further development of digital technology; agreeing on common atandards; and devicing arrendoments for devising arrangements accounting and hilling.

**David Thomas** 

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### World Telecommunications 11

**Electronic** Publishing

# More data services come on stream

number of subscribers needed with superhuman skills." to make an electronic pub- Some services such as Global to make an electronic publishing service hreak oven, may Analysis Systems (GAS), which he that once the information has provides information on acono-been delivered in electronic mic, political and strategic form and converted to "hard events in 100 countries, have expensive services and, as far as at Reuters, Bridge Data and the subscriber is concerned. Telegurs, and adds velue by pro-

dians of their primary sources of information, the traditional publishers of hard copy information in magazines and newspapers, that their informa-tion will not he pirated (fall into the hands of peopla who heve not paid for the information). The software industry is cur-

rently facing a similar crisis of piracy. Mr Trevor Havelock of Hot-

sgreements. "Publishers bave been slow to come to grips with the reall-ties of Electronic publishing" says Mr Havelock "Their initial reaction to any-

hody who wants to use their using free text retrieval alone. For example, stories containing proprietary product names assess associated risk and of pharmaceuticals hut not financial implications. As well nacessarily the term "pbar-maceuticals" would be indexed under pharmaceuticels.

Aoother competitor in this markat, McCarthy On-Line pri-vides full text retrievel, rather than ebstracts, albeit from a

smaller number of sources. "We go for quality, not num-bers," says Sarah Pahody of McCarthy On-Line. "We see no point in monitoring a lot of provincial newspapers. We use the most popular sources of husi-ness information."

One advantage of this service is that a stendard IBM Personal International's move into elec-Computer or compatible tronic publishing. The company machine with modem can be is a major publisher of printed used instead of the more material, from Britisb Rail esoteric terminals used by Hot-line and Taxtline, In 1984, ABC launched its

line and Taxtline. Datasolve, a Thorn EMI Information technology com-pany, currently markets two Electronic range of products for the travel trade with a compn-ter-based version of its best selling World Airways Guide. This is delivared to the subscriber hy major online information products: World Reporter and

national news and current sffeirs service, offering a 250m word database of authoritative sources such as the Financial Times, the Guardian, the Washington Post, Asabi News Service, the Economist, Asso-ciated Press, the BBC Summary of World Broadcests and the

(ICC) of Fort Washington in that US. ICC has wide experience in computer-based publishing and has recently heen awarded a includes databases from The British Overseas Trade Board, Plans and Projects Monitor,

is owned by Mead Data Central of Dayton, Ohio in the US, and worth Telepublisbing. Earlier this year, the company

 $\star XI$ 

acquired Eurolex, the main UK rival to Lexis, from the International Thomson Organisation. Eurolex was in financial trou-ble and faced closure. In the event, the Eurolex database

than Eurolex, and elthough some customers moved to Lexis, Butterworth Telepublisbiog would not he drawn on

the view that only large com-panies can afford the benefits of such services, that only large companies can set np these ser-vices, and that these services have to be expensive in order to



Mercury's network operations centre in Birmingham, where an advanced computercontrolled telemetry system is used to monitor and control its telecommunications network.

> New Public Services Sales set to rise fast

AGONYLINE IS no joke. It is

tion end network management. Forecasts for cash earnings in VANS markets are spectacular. Sales in western Europe are

worth \$200m a year and will rise to \$55n year by 1992, suggests Logica. The UK will lead with 30 per cent of that figure because recent deregulation means fewer obstacles to independent snppliers.

By using a VANS system, a company saves on the capital and staff it would need to oper. and bridge to the Leeds oetwork ate the same service in-bouse Small companies can start VANS for low capital outlay by piggybacking them on established VANS systems. British Telecom carried other VANS on Telecom Gold and the data-only network, PSS. Most business users, howevar,

still see the telephone line as solely a meaos of talking to someone far away. So, in October, the UK's Department of Trade and Industry (DTI) started a fl.25m two-year awareness programme, called Vanguard. Such programmes have had mixed results in the past. But

AGONYLINE IS no joke. It is now one of thousands of new public services aveilable by telephone—part of an exploding new industry called value-added network services (VANS). If a service of any description. added to an ordinary telephone line, it becomes a VANS. The hig sellers, however, are elec-tronic mail, financial informa-tion end network management. IBM moved even raster. As the national 'network already has customers. For

ters.

several customers. For exampla, it links entomated teller machines (ATMs) from diffa-rent huilding societies. In the US, the market is less

ATMs. The ATM reads the card lifted only this summer. Each one is about the size of British and eends the cash request eround the Alliance nework. The VANS providas the control

Both companies have since The DGT gave away the Minitels

started up separate network and recoups the money by not services. BT has menaged inter- having to publish directories

and into the head office compu-After cbecking thet there is enough money in the account, the authorisation travels back through the networks to the based Bellsouth took a Alliance ATM and cash is dis- ceot stake in Aircall,

one else's prohlam. Other hig VANS suppliers include Fastrak and Istel, sub-

Union to see what it will do with it unprofitable Easylink electrosidiaries of Midland Bank and

broadcast data services and say deregulated first. Since Angust, that for over 100 special receiv- currently worth about \$50m a controls only apply to VANS ers the service can compete year. Now AT&T is moving in with

the VANS. Already there are reports of Minitel millionaires, proprietors of their own lucrative services. West Germeny hes the most restrictive VANS environment in Europe. Even there the Deutches Bundepost (DBP) has IBM moved even faster. Its UK ellowed competition in electronic mail. Nevertheless, Logica

predicts the attitude of the DBP will bold hack VANS develop-A card-carrying customer of, than clear with many restric-say, the Leeds Parmanent can tions on the regional Bell use Alliance and Leicester operating companies (RBOCs),

and from the extra cails mede to

Telecom and they are eyeing opportunities in Europe. Two years ego Pacific Telesis bought the fledgling Britisb

electronic mail company, Oneo-one. It now takes second place in the market after Telecom Gold. In August, Georgia-based Bellsouth took a 40 per wbieb

Alignce ATM and cash is his- ceot state in Antean, when pensed. The transaction takes operates several UK VANS, about 20 secoods. The building Battle lines are drawn with societies can proceed with the BT's purchase, earlier this year, task of marketing, knowing that of ITT's Dialcom subsidiary, network management is some- from which the Telecom Gold service was originally licensed. All. eyes are now on Westero

British Leyland, respectively. nic mail service. Easylink in the Now tha BBC and ITV have UK is licensed by Cahle and entered the fray. They will Wireless. The Japanese VANS market is

18 Japanese pariners,

CODY.' has no control over how widely slart to publish information that information is distributed. exclusively in electronic form. The value of the information provided by these services must outweigh their cost to subscrihers. They are nevertheless

their henefit must he spread as widely as possible. Electronic publishers often bave a joh convincing the custo- politicsi nature.

line, 2 new online business information service launched by British Telecom in Septemr, acknowledges the prohlems of drawing up republishing

information from services such ducing detailed economic statistics and making editorial comment of an economic or It pays for these services and,

in turn, collects money from third parties publishing its information. Such customers include BT's Hotline and Textline, a similar service established some years ago by Fins-

bury Data Services. Textline provides text abstract retrieval facilities on a wider variety of business publications worldwide including national newspapers, husi-ness journals, press releases, news tapes, corporate financial reports, newsietters and hrokers' surveys. In addition to searching free

text, Textline employs an exten-sive range of indexing terms that further help to idantify vital arees of business information that cennot be retrieved

THE COMPANIES OF A MERITECH ARE LIGHTING THE WAY TO THE COMMUNICATIONS FUTURE.

### orgenisations trading overseas identify new opportunities and financial implications. As well as business media sources, it

contract to computerise the Oxford English Dictionary. Lexis, a comprehensive legal library and word-search system Euromoney and Sales Leads

International IPC, the world's largest publishing company, has a number of electronic publishing ser-vices under the umbrella of Reed Telepuhlishing.

ABC Travel Guides, a leading publisher of travel related information, is part of Reed Telepublishing, formed in January 1984 to spearbead Reed International's move into elecwas absorbed into Lexis. Lexis was more expensive

numbers. The decision to acquire Eurolex had to be made against a history of adverse trading conditioos for computer-hased lagal research companies in a market that was growing very

slowly. Although new electronic publishing services are continually coming on stream, it is far too early for a shake-out, which may result in a loss of confidence among subscribers. Furthermore it may reinforce

on the same terminal. A year sgo, the company installad a large IBM 3083 mainframe computer to support this development. The software for this system was developed spe-

> be viahie. **Boris Sedacca**

Prestel, or by the private Travi-com computer network. The majority of travel agents already use one or other of these networks to access airline and tour operator information. Tha ABC product allows them to look np air schedules and fares

World Exporter. Originally developed in a joint venture with Datasolve and the BBC, World Reporter is the UK's largest full-text inter-

BBC External Services News. cifically for ABC by another World Exporter is a business Reed company, International intelligence service to help. Computerprint Corporation

INFORMATION such as computerised database

profits are still elusive.

### ioformation is that they should retrieval are starting to take off, huy hack issues. The chances particularly in the US, though are that the user will not know where to find the information The reason, apart from the unless be is using a librarisn

the informatioo provider geared themselves up from the GAS itself takes io informetion feeds from outside services Including securities trading

worth over fim a year, or whose with telephone distribution. than £50m a year. Above those levels there are half a dozen rules covering publication of tariffs and conformance to technical standards.

this time the sector has been

Some companies have fore-seen the cash potential of VANS seen the cash potential of VANS in a deregulated environment. In 1984, IBM and British Tele-com tried to set up Jove, a super-VANS which could carry other people's services and data, but managed by IBM and BT. The then-Secretary of State organisations. for Trade and Industry deemed that the joint venture would squasb competition, and stopped it.

Each of these carrier net- Fujitsu and Nippon Life Insurworks take specialised products to customers' offices. There are ance Company. International telephone lines online databases for farmers and for journalists and for equity dealers. Just before the August deregulation, 782 VANS licences had been issued to 195 make it easy to set up inter-national VANS. One such is

Edinet which carries docu ments across the North Atlantic and is operated jointly between British Telecom and McDonnell British Telecom and McDonnell Donglas. Such deele can create prohlems for enstoms and excise officials. Millions of pounds worth of information crosses international borders, travelling on wires or by satel-lite, out of eight and ont of mind. In France there are 2,500 VANS going out to over 1.5m Minitel screens. They are pri-vately operated, hnt the Minitel vatery operated, int the miniter network, called Teletel, is state-owned through the telecom-munications body, the DGT. Teletel is similar to Prestel which bas under 70,000 users.

Danny Green

### **Customer Services**

# **Centrex forces changes**

PABX features.

nsing it.

Hannam.

bleeps.

PRIVATE TELEPHONE switchboards in Britain will start disappearing next year. It has been bappening in the US. for over a decade and the cause is centrex.

With centrex mnch of what bappens on an ordinary office switchboard is duplicated in switchboard is diplicated in part of the main public switch reserved for one customer. The result: companies can save on eapital outlay, floor space, tele-phone management staff and electricity costs. One of the telephone companies in Washing-ton DC, for example, now bas more than 43 par cent of its business lines on centrex.

Ten years ago, companies gen-erally changed their private telephone switchboards (PABXs) every 15 years. Now it is more like every aight years. Between 1982-85, most com-panies exchanged their pre-electronic switchboards for a new generation cootrolled by computers. Now there is little or no erowth in sales of these computers. Now there is little or no growth in sales of these litems. The problem facing the suppliers is how to add enough value to PABXs to make com-panies scrap what they bave now. And they face the naw challenge of centrex.

UK manufacturers, such as UK manufacturers, such as Plessey and GEC, have been canght napping by centrex. Mer-cury is installing centrex on kit bought from Northern Telecom of Canada, while British Tale or Ganada, while british fale come is huying from Philips. "System X will have centrex-type facilities maybe next year," says Mr John Hooley, Plessey

market plenning executive. Plessey has more than 80 per cent of UK sales of large PABXs and, in common with other gers keep track of how long a manufacturers, will lose sales if caller walts before the cell is customars prefer the sound of answered, is selling to mail customars prefer the sound of order and insurance quotation centrex

"It should appeal to multi-site companies. Automatic call-for-organisations. such as retail warding bas to be run on a cbains where centrex can give PABX or from mobile phones, the company a single telephone because it is usually not avail-number with the shops as exten-slons," Mr Barry Hannam, sales network. and marketing director of Tele-but the PABX-makers are and marketing director of Tele-phone Rentals. He thinks thet

struggling against the tide. Although the latest PABXs use cantrex will improve awareness of other products, such as prog-rammable phooes and new digital technology, that does not make much difference while the telephone network itself nses pre-war parts. Both Mercury and BT are putting digital links into only a small proportion of UK premises and most merket These extras are vital in a

market selling otherwise aiml-lar products. Volce mail can now ba bought with the PABX. It allows usars to leave verbal message for other extensions, like a centralised answering machine British Tolecom Turs forecasts suggest that PABX sales around the world will not begin to take off until 1989. Around that time, widespread trials of the integrated services digital network (ISDN) will start—the current British Tele-com pilot project is called IDA mechine. British Telecom runs a public varsion called Voice-

bank, but customers pay for The future for votca mail is and has s handful of subscri-bers. ISDN will carry voice, data uncertain, however. The US text and images on one line from tha office, and most developed countries plan to build ISDN as a publicly experience is not promising as it bas to compete with the ordin-

accessible service. It is already possible to simu late ISDN on leased lines with some PABXs. But the ISDN standards have not yet heen finalised, and buyers risk ending-op using standards which no one else has bought. experience is similar-"voice In tha meantime, the dereg mail sales are flat," says Mr ulation of telecommunications and uncertainty about the ISDN standards which will eventually Soma extras do help. Pocket

pagers can now be operated from PABXs. Users may dial he adopted is pushing custom ers away from in-house services to hureaux. During the 1970s someone's extension and, if they are not there, their pager " electronic mail " meant a company-wide service, operated in house. Now there are 50,000 mailboxes allocated in Telecom Antomatic call distribution, where incoming calls go to free Gold alone, and there are at phones in sequence and manalaast three serious rivals chas ing in its wake.

Danny Green

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Office Automation

# Stronger emphasis now on integrated systems

THE "alectrooic offica," tha ultimate in office automation, continues to advaoce, though hardly in tha way or at the pace the pionaars predicted. Thay had expected davalopmaots to turn around the multifunction workstation a low cost davies

\*XII

and its adoption as tha de facto

ter Corporation, more than half the office workers in the developed world will have tha use of a personal computing

resource by 1995. Speaking at a recent Finan-cial Times confarance he argued that communications was tha key to realising the vas tha key to realising the potential of tha personal com-puter in the office. "The parsocal computer has already become the hasic huild-

ing block in office automation and information processing." he said. "When tied together via a variety of communications approaches, personal compu-ters can move bayood indi-vidual productivity applicatioos and deliver true workgroup pro-ductivity solutions as wall."

It only takes a glance at the spectacular, and somawhat unexpected, resurgence in the fortunas of the flightal Equip-mant Corporation, to realise that the large corporation offices are raady for these developments.

DEC is riding high on a wave of enthusiasm for "integrated office solutions" and "distributed pro-cessing," the ability to the togethar simply and cheaply all the compu-ters needed to run an office environment into powerful data networks.

Put simply, the modern corporation needed three levals of computer power to run its husiness.

First of all, it needs its traditional data centre equipped with mainframe computers to act as a reservoir of computing enough.

powar and to act as guardian of tha company a ioformation. Sacond, it oeeds smaller machioes at the departmental level to provide local power and dots the same and the same and data storage. And third, it naada parsonal computers on the desks of its executives.

turn around the multifunction workstation, a low-cost device iocorporating talephone, prin-tiog devica to raplaca the type-writer, computer and alactronic memory to replace paper files. Cost aod technological inertia precludad that. Instead, offica automation has procaadad io a much more piecemeal fashion. The single most important fac-tor has haen the advent of the profassional personal computer and its adoption as tha *de facto* computers were aasy to connect to each other and their common and its adoption as tha de facto computers were aasy to connect workstation. According to Mr Michael architecture meant that they Swavaley, vice prasidant, could work together as a single marketing, for Compaq Compu-computing unit.

Furthermore, the concept of tying together a number of high-powered VAX minicomputers to replace conventional main

replace conventional main-frame computars in the data centre is gaining credibility. DEC had haao gaining at the expense of 1BM, saddled with half a dozao separate and incompatible families of machine design and no clear machine design and no clear and simpla hluapriots for office automation.

Earlier this year, in what many observers believed was its most important product launch it introduced its System/360 mainframes in 1964, IBM struck hack.

It announced a family of machines designed to operate as departmaotal, or office, computers, idantical in architecture to its large mainframas.

In other words, it had ensured compatibility between its data centre machinas and its office minicomputers. Customers had not been too enthusiastic about IBM's previous solution-to link personal computers to a System/ 36 minicomputer and connect that

in turn to the mainframe. According to Mr Stephen Smith, computer industry analyst with the Naw York stockbrokers Paine Wehher; Customars loyal to IBM have baen waiting (impatieotly) for an acceptable departmental

solution,' Ali hut one of the customers we surveyed are dissatisfied with tha System/36; it is too smsil and IBM seems unable to increase its capacity quickly reality.

Australia ANZ Bank HQ, Caltex, Electricity Trust of S. Austr., Ford, ICI Network, John Fairfax, Westpac Bank.

Austria Alfa Laval, Kurier, Wienerstädtische Versicherung, Österreichische Mineralöl-Vervaltung. Belgium

Proctor & Gamble, Université Libre de Bruxelles. Brazil Ministerio de Educação e Cultura. China Fuzhou Rail-

way, Ministry of Metallurgy, Nanhai East Oil Co, Nanhai Wast Oil Co. Colombia Aeropuerto de Medellin. Den-

Mr Smith argues that tha new machine ranga, which IBM calls the 9370 family, saems to be exactly what thase customers naad: " Several of these customars are attamptiog to create a world-wida PROFS elactrooic mail network and statad that the new machica would be the idaal PROFS note internationally." PROFS, IBM's professional

office system, is a key part of IBM's emerging office automa-tion strategy. It is dasigoed to help managers, professionals, secretaries and support staff in the creation and communica-tion of work informatioo. It allows offica functions to ha parformed on the same termi-nals used interactively for problam solving.

So the 9370 family is likely to have substantial impact oo the office automation market. The impact will be offset to some extent hy tha fact that the new machines will not be shipped until the third quartar of 1987.

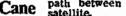
The question of how bast to connect together all the devices which comprise the electronic office remains opan. DEC is firmly committed to Ethernet, the first and best daveloped of the local area network (LAN) products. IBM, on tha other

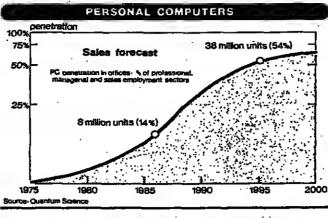
hand, has introduced its own "token-passing ring," another variation on the LAN thame. LANs are important because

thay allow computers and com-puter-hased devices to be connected together cheaply and reliably within a small area-typically a building or an office complex.

Conventional computer cab-ling is expensiva, difficult to weave through even the most modern huildlog and boosters have to he used avery so often. LANS use sophisticated communications techniques to ovar-come these prohlams. They can be osed to connect computers, be osed to connect computers, printers, facsimile davices (a fast-growlog area of office com-munications), electronic data stores—and they promise tha effective integration of voice,

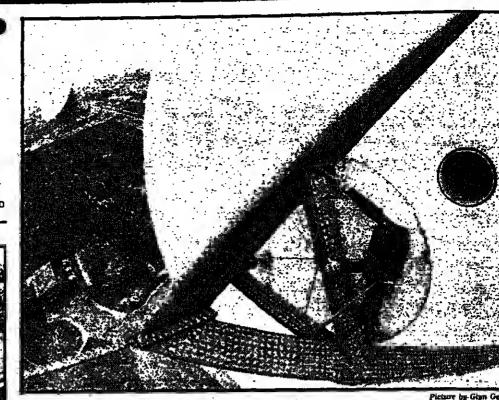
energy integration of voice, data, image and text over the same network. In 1995, according to Mr Swavely of Compaq, the mul-tifunction workstation pre-dicted by the piooeers will be a mality





World Telecommunications 12





Financial Times Monday December 1 1986

Giant dish aerial installations: left, at British Telecom's earth station at London Docklands; and (above) at the earth station at Madley, near Hereford

# Era of optic cable and satellites

Developing the Infrastructure

WE ARE in the age of informa-tion technology where there is an ever increasing demaod for This delay is rather discon-certing in a telephone conversation. Nevertheless, they are a widely used medium and are more circuits so that more teleheld simultanaously and grow-ing amounts of information ln particularly valuabla in areas where it would otharwise he nacessary for cablas to travarsa inhospitable terrain or where thare are a number of separata destinations, each of which could not justify the installation of a cable other forms-such as data, text and video-can he transported from place to place. The nead is therefore to in-

crease both the number of paths of a cable. and thair capacity. As this trend will contioue to grow for the foreseeable future, especially with the move towards the inte-(ISDN), the telecommunications and the wait for them would ha

carriers around the world are investing heavily in order to meet anticipated demand. Satellites and cablas are both compatitive and complement-ary means used for long dist-ance communications on a point-to-point or point-to-multipoint basis. They do have the disadvantage that signals take half-second or so to reach their destination due to having to

Small dish satellita ground stations can also be set np quite rapidly to bring servicas to the end-user-valuable where no too long. A good example of this occurred in France where, foilowing the launch of the Tela-com 1 satailite at the end of

1984, transportable sstellite ground stations were brought into service so that the adv-anced digital satellite services could be accessed from any part of the country. To meet growing needs for tele-communications capacity,

Alan Cane at the double 22,000 mile Intelsat (the international tele-satellite.

sortium of the PTTs of the major ing the ductwork on new rontes European nations, and a num-ber of other organisations of duct and the lower number of around tha world are con-tinuing with their satellite sys-tems which, in addition to tale-communications will be used submaring on tigal cable runcommunications, will be used

for TV hroadcasting. Thare has to be a continual satellite replacemant program-me. This is because satellites only have a limited in-orhit life cuits already provided by the 12 as they can only carry a limited amount of the fuei needed to cahles that span the North Sea. TAT-6, the first transatlantic optical cable, being funded by a consortium of the major PITs around the world, is scheduled keep them in the correct posi-tion and attitude (ie pointing in the right direction) in space. No matter how useful these to come into service in 1988. It will be shortly followed by PTAT-1, the first privately funded transatlantic optical cable in which Cable and Wire-less is the prime mover. sateilites become, the greater proportion of transmission will continue to be carried via cahle-both terrestrial and snbmarine. The performance provided hy

modern optical cable systems is such that a single fibre less than forward contracts placed for TAT-8 capacity, aimed at draw-0.1mm (one-tenth of a mil-limetre) in diameter can carry ing potential husiness away from PTAT. It cannot really be 2,000 or more simultaneous con-versations with regenerators to hecause it does not expect the market to be ahie to support reamplify the signal only being neaded every 30km. This com-pares with previous generation coaxial cable systems in which the cable is about 10mm in diamarket to be anle to support both cables because, even with all this increasing capacity in the pipeline, initial discussions have already started with re-spect to the next PTT-owned cable, TAT-9.

meter and the repeater spacing is typically 4.5km. On land, the smail physical size of fibres anables additional cahles to be instailed in existing ducts which would not have

work (PSTN) and to other portions of private networks. Initially, these fibre links will operate at 2Mbit/s (equivalent to of duct and the lower humber of access points required for the installation of regenerators. The world's first international submarina optical cable, run-ning between the UK and Bel-30 telephone channels) hnt will have the ability to he npgraded to 8Mhit/s and beyond as de-mand increases. As it will not be necessary to replace the fibre cahle itself wheo carrying out this upgrade, costs and time will be kept to a minimum. gium, was recently inangurated. It added a further 11,500 tele-phone circuits to tha 23,000 cir-

be kept to a minimum. In the longer term, the tele-communication administration are looking towards broadhand ISDN which will provide sub-scrihers with about oce-thousand times the bandwidth of ordinary (or narrowhand) ISDN and so allow them to pro-vide picturephone and other fu-ture facilities. A view expressed by Dr Charles Kao, one of the key fi-gures in the development of fibre optics, was that whenever subscrihers have been provided with an increased amount of

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with an increased amount of capacity they have always found good uses for it—even if it was impossible to know what initial-ly these uses would he. If this is the case, it is to be expected that the information

age will continue to he hungry for transmission capacity for many years to come. In the same way that a country's GDP is fre-quently correlated with its tele-phones per 1,000 of the population, a more true measure in the future might be the available traosmission handwidth in megahits per head of popula-

While the domestic sub-scriber and the small business with just a few lines will proh-ahly long continue to be con-

Rauma-Repola Oy, Sanoma Corp, State Railwave Pertamina UP-II, F · :

roll, An Post, Italy POOR ROGER HAS BEEN ENEL, Fininvsst, It LOOKING SO CONFUSED RECENTLY. BEFORE THE MD HO WAS INSTALLED HE HAD Aeromexico, Banan ALL THOSE THINGS ON HIS DESKser, Casa ds Bolsa, l 3 TELEPHONES, THE ANSWERING MACHINE, xico, Sscretaria de C THE INTERCOM, A MODEM AND ALL THOSE CABLES. sportes, Telmex, Xe IT MADE HUM FEEL SO IMPORIANT lands Asgon, Amfai

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heen able to accommodate further coaxial cables. This en-ables the available capacity to be increased rapidly and easily to meet demsnds. Similarly, the cost of install-

Adrian Morant

### The Standards Issue

BT is offering discounts on

# Crucial to good order

ety; hardly the stuff to make the odrenalin flow hut crucial to good ordar all tha same. And just as influance of a new law on sociaty inevitably reflects its authorship, so a com-user with a solution to sat a de solution to solution to sat a de facto standard with its com-rules SNA--Systams Network reflects its authorship, so a com-pany which sets a computing or communications standard achiaves o commercial advan-tage which can be devastating Take, for example, the US software house Digital Research which swept all before it whan it pioneared the first operating (control) soft-the late 1970s. Whan IBM launchad its hest-selling personal computer in selling personal computer in the intercoonection of dissimi-

machinas.

lar computar systems, they are not directly comparable. SNA is a set of rules which describes how to connect com-putars togethar in an IBM net-work—it does this hast when the computers are IBM's own

selling personal computer in the early 1980s, it used an oparating system PC/DOS huilt hy another software house, Mlcrosoft.

Microsoft inevitably and Microsoft inevitably and rapidly bacame the leadar in the personal computer operat-ing software league and has remained so

All of which explains the worldwide concero about moves to establish standards in the interconnection of computer

Organisation. This is called Open Systems Intercoonect or OSI.

The aim is to define every companies to overcome alement of tha connaction procesa betwean computer systems so that aoy device or natwork obeying the rules can be con-

obeying the rules can be con-nacted to any other systam obeying tha same rules. The prohlam is that the dainition of thase rules, mun-dane lhough they may be, is an exacting process. Tha OSI stan-dard will evectually define seven aeparate "layars" (sets of rules daaling with specific dis-crete areas of connections! and ooly the lower four of these have heen complately defined. have heen complately defined. Meanwhile, companies worldwide are anxious to move quickly to develop their own tele-communications and data com-munications networks.

1 NG 1960 V Y

The second states and the second

France. A major oims now is the establishment of conformance testing centres—laboratories equipped to test devices and systems to check that they really lo the maantime, each compu-tar manufacturer has developed its own interconnection standard-Digital Equipment has DECNET, Surroughs (oow

STANDARDS are to datacom- Unisys) has Burroughs Network do conform to the rules faid munications as laws are to soci- Architecture and so on. down by ISO for OSL

The picture is given added depth and complexity by the fact that IBM has contributed from the first to the definition of the OSI standard and, in fact, operates the largest OSI conformance testing laboratory in It is important to understand that although OSI and SNA are the most important designs for Europe.

It has consistently argued that it will respect OS1 conventions for the connection of dissimilar systems hut that it will not give up its own investment in SNA in fayour of OSI within its own networks.

What is remarkable about the whole standards dehate la that for the first time the argument in being driver when the argument in OSL on the other hand, is con-cerned with the connaction of dissimilar computer systams-IBM to ICL, Honeywell to Unisys being drivan by the customers for systems rather than their maoufacturers.

In the manufacturing arena, the introduction of computer and so on. Many large companies, in iotegration in the factory has been given significant impetus by the demand from General Motors that all its suppliers implementing data communica-tions networks, are using SNA for the simple raason that their data processing is based on IBM data processing is hased on IBM obey a version of OS1 anited to computers and SNA is now triad and tested over a period of manufacturing automation pro-

years. There is, therefore, considar-ahla cause for worry that IBM could set tha staodard in com-puter-to-computer communica-tion by dafault. That would give it a competitive edge which it would he very difficult for other companies to overcome. System specifications ara nevar static; planning to meet thase specifications is akin to firing at a moving target. If IBM was allowad to astablish SNA as the interconnect standard, it would always have the advan-tagas of knowiog what changea were cext in the pipaline.

would he very difficult for other companies to overcome. System specifications ara nevar static; planning to meet thase specifications is akin to firing at a moving target. If IBM was allowad to astahlish SNA as the interconnect standard, it would always have the advan-tagas of knowing what changea were oext in the pipaline. Thia is why many of IBM's competitors have put asida their own networking ideas to conceotrate on a uoil front based on OSL in the US there is the Corporation for Open Sys-tems. Similar plans have been put forward in Europe by com-panies such as ICL of the UK. Siemens of West Germany. Olivetti of Italy and Eull of France. A major oims now is the establishemen of conformance equipped to test devices and systems to check that they really

Alan Cane



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# SECTION IV FINANCIAL TIMES SURVEY

Contents

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Accession to the EEC has given Spain an important psychological boost. The size of the challenge is only

now beginning to be recognised however by the manufacturing industry

# The taboos start to lift

THE SPANISH wanted almost unanimously to join the EEC-and they are glad and relieved

to have made it. But most of them have forgotten why. Ordinary Spanlards, who up to acces-sion were more aware of the sion were more aware of the obstacles to entry than the reali-ties of the Community, would be hard put to point to any real changes aince Jannary other than value-added tax. But those feeling the most di-rect effects, the manufacturers.

are starting to realise the size of the challenge taken on. The impact of entry for Spain is mainly psychological, hut is by no means a negligible one.

Achieving membership was the political equivalent of a doctor's certificate—a sign of acceptance and recognition of Spain as a "normal " country. It is no longer a nation with a chip on its shoulder. Membership has also brought

a sense of completion for the transition to democracy. It is remarkable to think that four or five years ago coups d'etat were still in the air and newapapers were bravely publishing editorials in defence of the constitu-tion. Spain today is at last getting over its taboos: television is launching its first full series on the civil war of 50 years ago. The occasionat reappearances of fascist Spain, such as the annoal

By David White

Span

ranean states demonstration a few days ago in memory of General Franco, have little significance—a curiosity like the persistence of unusual eating hours. King Juan Carlos's visit to the UK in April was a resounding success, even though talks on Gihraltar, initiated two years Spain has now come fully into the mainstream of the western

ago, are bogged down. Commercially. Spain has turned even more towards Europe. In the first nine months commonity. Less than three months after hecoming an EEC months after hecoming an EEC member it voted to stay in Nato (albeit with some reluctance and at the cost of a tough argu-ment with the US over the fu-ture of American bases). It would probably have become part of the IMF group of 10 if there were not already I1 in the group. It will almost certainly join the European Monetary System once inflation is down to an average EEC level, cossibly supplanted the US as Spain's

an average EEC level, possibly in 1988.

Problams with neighbouring countries have been smoothed. Fearful of freah tension with Paris after the Chirac Govern-ment's arrival in power, the Spanish have been taken aback France have evolved. French authorities are co-operating more than ever be-

fore in the crackdown on Basque terrorism. A fishing dispute in the Bay of Biscay was resolved when France conceded rights to the Spanish. In ex-

Europe. In the first nine months of this year its share of exports going to the rest of the Commun-ity rose to 60 per cent from 53 per cent a year earlier, and the EEC's slice of Spain's import market rose to 48 per cent from 36 per cent. West Germany has supplemented the US as Spain's

change. Spain has not taken up cudgela over the EEC'a policy

towards non-member Mediter-

biggest supplier. Though not dramatic, changes are beginning to filter through. Items that hefore had rarity value, from Weetabix hreakfast cereal to Alfa Romeo cars, have become commonly available. EEC standards will progres-

sively be applied in areas like hygiene in ahattoirs and en-vironmental protection. Helped hy EEC funds. Spain is prepar-ing to tackle phenomena such as African swine fever, which pre-veots it from selling pork pro-ducts in Europe and is embarrassingly suggestive of the Third World.

or drained of resources-have been surmounted. The Govern-ment has lifted most of the re-maining restrictions on foreign investment and, more recently, opened the door for Spaniards to invest in shares abroad. This is a hig sign of confidence. The moderate Socialist Gov-ernment of Mr Felipe Gonzalez,

re-elected in June, slts firmly in the seat of power, undeterred by seing Socialist parties toppled In hoth of Spain's immediate neighbours, France and Portual, and ahle to hold the vote of the left while pursuing policies (Including some privatisation) that have little to do with Social-

World. Old fears which led Spain to put up harriers—being overrun almos smug normality is the year. employment to continue in-creasing, as it has since last

ment, affecting more than 21 per cent of the " activa " population. Even if a third of the 3m un-employed are working in undeclared johs, as the Government reckons, the figure is still well above average EEC levels. With more people, especially women. coming onto the johs market, the figure is not likely to come

down, even though the author-ities expect the number in

slightly above target at 9 per cent, including the effects of VAT. Prospects appear good for a renewed labour consensus with the Socialist UGT trade no-

rheumatic complaints, but is now going to have to get up at the crack of dawn and go on forced marches.

Spain has shown itself highly competitive in aervices — wilh a big rise in tourist revenue it can expect to consolidate its current account surplus this year. But it ia much lesa ao in industrial goods. The divergence in inflation trends with the rest of the EEC, a stronger pesets and a gap in productivity often reaching 25 per cent have all taken their toll. Although investment is recovering. industry is now feeling the lack of it in recent years.

With no more tax henefits for exporters, and with tariff de-fences starting to come down, Spanish manufacturers have been losing ground at home and ahroad. Exports in peseta terms are 6 per cent down ao far this year. Imports have also dropped because of slashed oil prices, hut by less, and non-energy im-ports have risen in volume by ahont 20 per cent.

Spain's non-energy trade ba-lance has swung into the red. In a had, drought-hit year for cereal crops, the farm sector has not offset the negative effects of EEC memhership on the industrial halance.

Since the first traiff cuts in March, Spain's one-time surplua against the EEC has been wiped out. In the first nine months its sales to the rest of the Community rose by only 6 per cent against a 25 rise in imports. In October its trade with France dropped into deficit. The Government has already had to in-voke safeguard clauses, notably for steel products.

e The ontlook is for growth above EEC averages in the next few years although there are some doubts about the Govern-ment reaching its 3 per cent target for this year. Inflation has caused bouts of anxiety but ia expected to end the year Socialists'

mines. Ahroad, Spain is handicapped

by weak and inexpert marketwith the Socialist UGT trade no- ing. While in some areas it has ion, hased on declining infla- demonstrated a capability for ion, hased on declining infla-tion. high-quality workmanship (and in this sense, entry has heen the Government has started smoother than anticipated. But campaigning to improve quality for much of manufacturing in-standards) it has been generally dustry. joining the EEC has had at selling itself. It was not been like passing a medical for the greatest inspiration, for in-military service: it did not try to get off because of flat feet or up in the US to market Spanish

2

### **Politics** Relations with the US Economics Trade Property The Unions Motor industry Profile/INI Technology Small Businesses Wine Cinema Tourism

defence equipment to call it

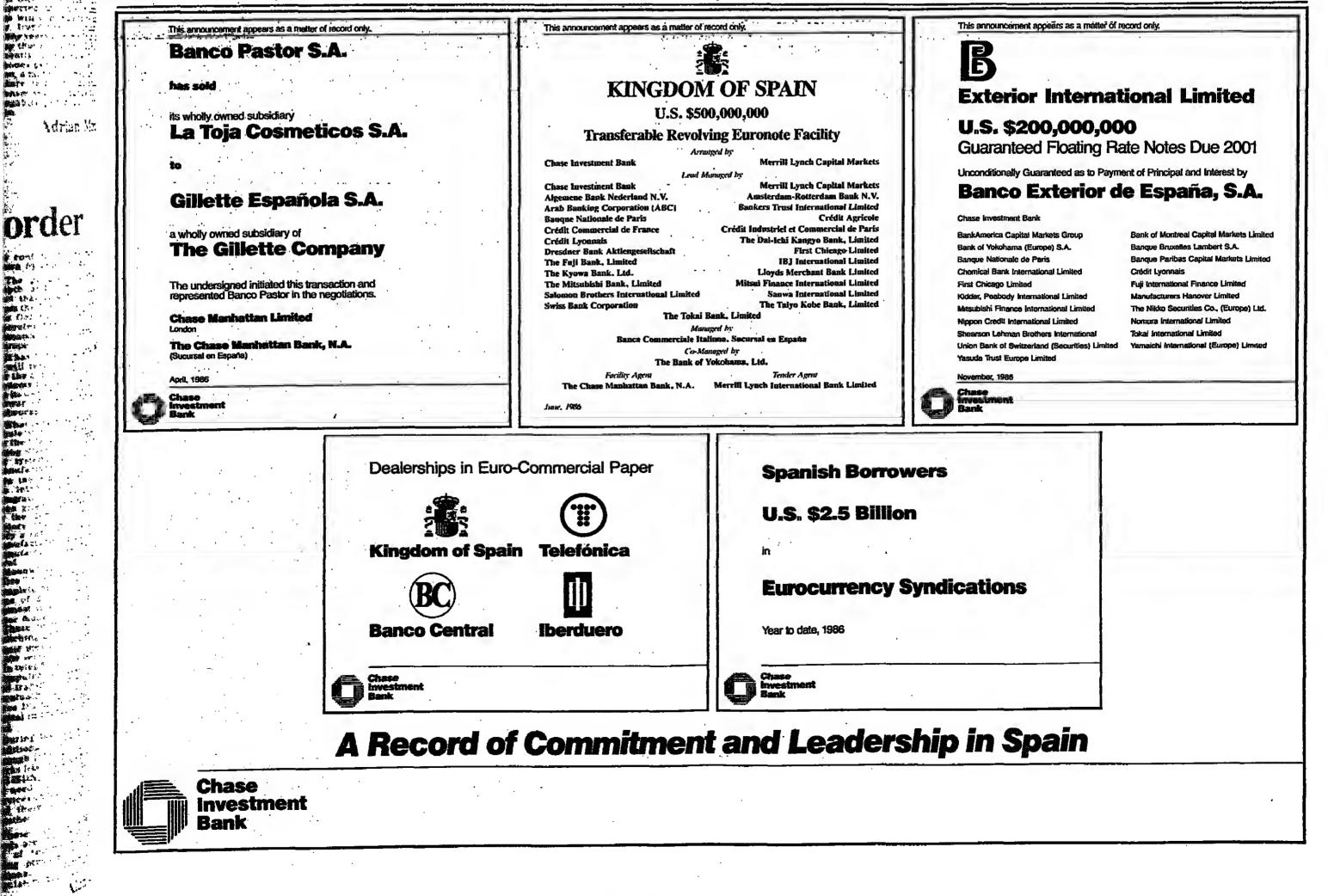
Defex. This year, however, has pro-duced at least one outstanding success for Spanish salesman-

ship, with the clinching of the 1992 Summer Olympics for Bar-celona against strong competi-tion. The Games and the universal exhibition planned in Sevil-le the same year for the 500th anniversary of Columbus's first discoveries will mohilise investments of several hillion dollars. The events coincide with the

last year of Spain's industrial transition period with the EEC, and industries such as telecommunications hope to use them as leverage to make a " qualita-tive leap" into the European front rank.

The bulk of a \$15hn invest-ment plan for Spain's railways is due to be completed by then. Madrid, once one of Europe'a most poorly connected capitals, will be accessible hy a new dual-carriageway road network. And, five centuries after Spain's conquest over Mourish occupation, the sonth will at last be physically linked to Europe.

It may have to do with the new horizons opened since joining the EEC, or with the end of an industrial crisis that came later and cut deeper than in the rest of Europe. But a noticeable change has come about io the way Spain has started to think big.

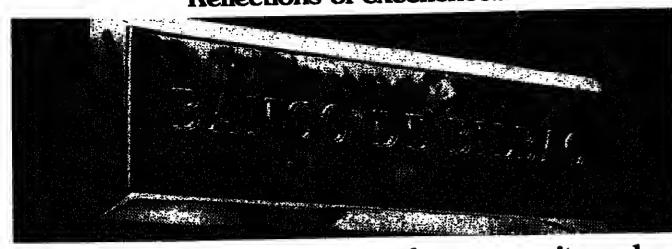


A jubilant Felipe Gonzalez, re-elected as Prime Minister, is firmly in the seat of power

Basque problem, not only be-cause of continuing terrorism. hnt also because of the failure of the inhabitants of the Basque country to find common ground on the kind of political model they want. Another is unemploy-

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# Gonzalez is firmly in the saddle

Spain 2

Politics

FELIPE GONZALEZ is a much more relaxed man than be was nine mooths ago. Then, in his campaign for a referendum vote in favour of staying in tha Nato alliance, which he bad opposed joining just four years pre-viously, he had reasons to be tense. Canght np in a tangle ol his own creation, bis future as Prime Miolster was io some doubt. The referendum over (won lo

The refereodum over (won lo the end more easily than he expected, by a margin of 53 per ceot for, 40 per ceot against), confirmed lo office for a second foor-year term in the general electioo io June, Mr Goozalez is oow firmly settled in power. Nobody at the beginning of Spaio's transition to democracy after the aod of the Franco era in 1975 could have forescen the Socialist Party—which last got a taste of power in the unruly pre-civil war years—being so safely

tive business establishment for greater signs of realism, the Socialists bave appeared if any-Are they there to stay for decades, Swedish-style? Or will they burn themselves oot? lo the general election the party kept on outright majority in Congress but lost 18 of its previous 202 seats and a large part of its hold oo urban middle class voters. Its leaders are wor-ried about oext Juoe's muoici-pal elections, wheo socialist mayors in several big towns iocluding Madrid face e tough

Dattle. The source of tha Socialist Party's strength—its broad appeal, breaking the mould of left-right confrontation—is also its problem in deciding who it is alming to please. It come to alming to please. It came to power io uolque circumstances. by our political will than by the possibilities then offered by ecooomic reality." However, the confict between It's predecessor, the ceotre-right UCD, which four years ago it's predecessor, the cectre-right UCD, which four years ago was in the process of handing over the reios, had collapsed utterly and has since disap-peared from the scene. With the Right reluctant to budge towards the Ceotre, the Centre io disarray, and the Com-munists in the throes of their own spectacle of division and collapse (which they managed to repair a little this year), the Socialists were left with a vacuum to fill. As Mr Jordi Sole Tura, com-muoist. law dean in Barcelona, aod ona of the architects of the 1978 constitution, put It; "The PSOE (Socialist Party) has ituation of having to be simul-ate right, of the Centre and of the Left, because all the other parties that sbould occupy these iter the specific parts of the moder-ate right, of the Centre and of iter Left, because all the other in the specific parts of the moder-in the Left, because all the other in the specific parts of the moder-in the Left, because all the other in the specific parts of the moder-in the there how a the other against "pseudo-leftist in the specific parts of the moder-in the socialist Party, to which Mr guerra does not belong, and in the specific parts of the moder-in the specific parts of the moder-in the left, because all the other in the secome increasingly was an the party is the specific has become increasingly

ate right, of the Centre and of served to eclipse the real left of the Left, because all the other the Socialist Party, to which Mr parties that sbould occupy these Guerra doas not belong, and positions bave been through, or which has become increasingly are going throngh, or will go through, grave internal crises." Izquierda Socialista, is meeting A young socialist team, many over tha next few days to con-still in their thirties, come to sider whether to contione as a

without much experience. In the autonomous regions, power their second term, praised by rivalries bave taken the nlace of



Miguel Boyer, ex-finance minister (left), and Alfonso Guerra, deputy prime minister: a verbal skirmish between them.

ideological discussions. Mr Gonzalez bas himself become worried about the parrepresenatives of the conservaty's "dangerous treod towards becoming an oligarchy," as be told a socialist summer-school

Socialists bave appeared if any-thing more moderate. The Nato debate was symptomatic of the ditching of demands made while in opposi-tion. Mr Felipe Gonzalez suf-fered some damage to his con-aiderable popular image io the process of a rather heavy-baoded campaign, and is oow accused of backtracking on his pledge to keep Spain outside Nato's military sructure. This year's rambling election programme contrasted starkly with the "100 poiots" the social-ists were proposing in 1982, startowards 1990 and the unre-solved question of what party or coalitioo could provide a credi-ble alternative to the socialists. Tha bosiness establishment's dilemma over its political prime minister, who made e triamphant comeback with bis CDS party in June, meanwhile ists were proposing in 1982, star-ting with the creation of 800,000 new jobs. "We were guided," the 1986 programme admitted, more Nato campaign, when the blg banks parted company with Mr

banks parted company with Mr Manuel Fraga, leader of the main right-wing party Allanza Popular, who had called on his sopporters to abstain. Mr Fraga's positioo also got. Him Into trouble with other European conservative parties, and exacerbated growing ten-sions among his chief disciples. The right's problem is that the 64-year-old Mr Fraga is its best vote-pulling asset but at tha same time its biggest liability in the trouble with more support. Mar Fraga's position also got. Him Into trouble with other some time its biggest liability in tote-pulling asset but at tha same time its biggest liability in the tempting to win more support. attempting to win more support. There is no obvious substitute who could hope to keep Mr Fra-ga's votes and at the same tima wio over the larga sector of ceo-tre-right opinion that would never consider voting for Mr .

Fraga. Regarded as a liberaliser when he served under the Franco regime. Mr Fraga is described by one conservative regional politician as "blolo-gically dictatorial."

In June, a three-party coall-tion led by Mr Fraga kept all but Expressing dissatisfaction over the result, it then pulled them

the situation is more radical and a large part of the popula-tion favours more complete

**David** White

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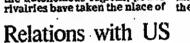
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office in 1962, without the movement or throw in the towel, ideological baggage of the old The party has become a victim anti-clerical, anti-militarist, of its own success. With local pro-Republican party, but also bosses setting up strong bases in



out of the opposition coalition. Meawhile, rumblings within Alianza Popular Itself over the high-handed running of the party grew louder. Io Septem-ber, Mr Fraga sacked Mr Jorge Verstrynge, the party's 38-year-old secretary-general, a one-time protégé and heir appareot. He had put Mr Fraga's name forward as candidate to the mayor of Madrid. Mr Fraga obviously saw it as an attempt to pot him out to pasture. The offending dauphin then noisily left the party with three other members of parliament. Mr Fra-ga's seats were down to 80.

Financial Times Monday December 1 1986

memoers of partiament, ar r ra-ga's seats were down to 30. To rub salt in the wound, there followed a crisis in the Alianza Popular Government in Galicia, the north-western region which is Fraga's home

region which is Frage's none ground. While rumours abound, Mr Fraga is still fighting, denying there is any crisis and refusing to let the party "lie fallow for any opportunist." A oew alternative centre right

A oew alternative centre-right formation, tha Democratic Reformist Party (PRD), laun-ched by Mr Miquel Roca, a lead-ing Catalan nationalist; politi-can, proved to be an uopre-cedeoted fiasco. It drew in sup-port from such figures as Mr Valery Giscard d'Estaing and Mr David Steel and Fta 600m in bank loans. But it got oo seats. Ooe went to an allied party in Galicia but that party has since

cDS party in June, meanwhile remains something of an eoigma. His long periods of silence succeed in making a cootrast with the noise of zenf-

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37-72 Lander 7 and Right but also between regionalist and national parties. Both have up to now had denre-13167 111 1 right governing parties, but both regions voted " no " in the Nato referendum to spite Madrid. 127.7 Ter . + the free of the second In Catalonia, where the Left

had a clear majority in the first years of the transition, they have lost ground, even though they come first there in national 10 20 20 20 20 Real and the elections. 1.1 In the Basque country, where

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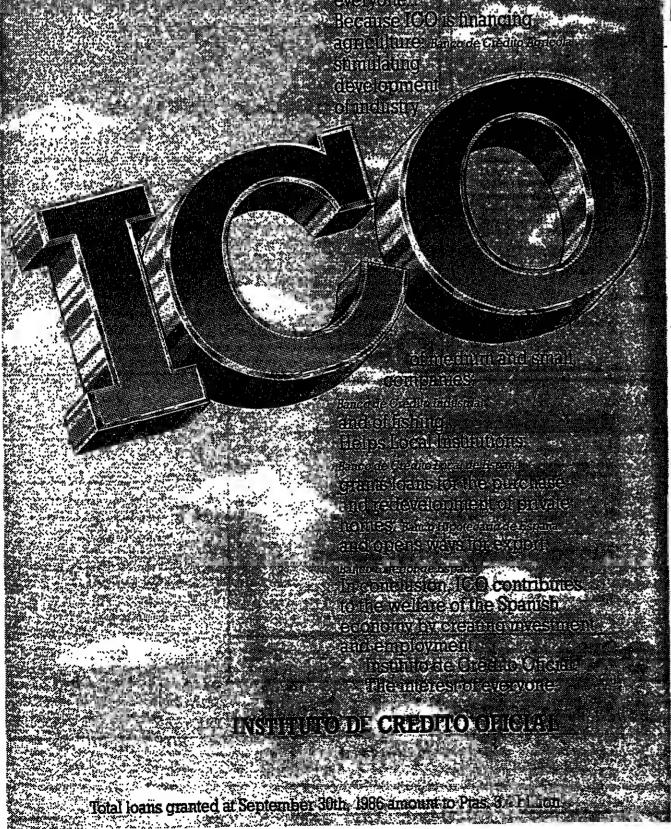
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# Anxiety on both sides

apt than in the complex and often nneasy relationship between Spain and the US.

Spain itself is numerically not well represented among the ethnic minorities of the US eveo if Spanish spaakers from former America. Spanish colonles are; there is no Spanisb lobby as there are no Spanish loboy as there are Irish, Greek or Israell interest groups working oo behalf of their kinfolk. Moreover, while other European nations were either allied to, or liberated by the Americans, Spain's ceutrality in both World Wars pre-cluded the devetopmeot of the reservoir of popular goodwill to Americe evideot elsewhere. Indeed, a post-war ganeration 1982.

The narrow (52 per cent) vote for membership was a consider-able relief oot only to Washingof Spaniards grew up perceiving the US as preeminently the power that had uoderploned the Franco regima, and coo-

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THAT PERCEPTIONS are sometimes, as important as realities in internatiooal rela-tions may by now be common-place, but nowhere is it more apt than in the complex and often nneasy relationship have sporatically opposed US

have sporadically opposed US policies, especially in Latin Nato-doubters he bad beeo forced to promise to negotiate a

reduction in the US military presence in Spain, to keep Spain out of the alliance's inte-Anti-Americanism, as well as traditional Spanisb neutralism, surfaced sharply during Presi-deot Reagao's visit to Spaio last grated military command struc-ture, and continue denyiog the US the right to deploy nuclear year, and again during the cam-paign leading to the referendum in March this year on Spain's weapons on Spanish territory. continuing membership of Nato. Had tha country voted to leave the alliance, it would paradoxicely have been thrown back Into its solitary embrace with the US, from which it had emerged on joinlog Nato in

most recent US-Spanisb agree-meot, signed in 1982, already circumscribes US use of the four malo bases (Rota, Torreion, Zaragoza and Moron), but since it also provides for \$400m of military credits per annum, there is little likelibood of a

drastic diminution in the US preseoce. ton and other Nato capitals, but Nevertheless, critical public to Spain's Socialist Prime opioion cannot be ignored. Last

**Reginald Bartholomew, the** new US ambassador to Spain, leads the negotiating delegation about US bases.

December, Mr Gonzalez warned the US administration that they woold have to accept some rundown io tha Americao military preseoce if he was to have a chance of winning the coming Nato referendum. Accordingly,

Continued on Page 3

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mixed. The balance of payments is in good shape, foreign exchange reserves stand at a record level of over \$17bn, and investment is up 7.5 per cent this year. this year.

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But unemployment—the high-est in Europe as a proportion of the available workforce— remains intractable at between 21 and 22 per cent. Inflation is also well above the Museum the Statement also well above the European average and shows signs of ris-ing further, while the public deficit remains a powerful con-straint on growth.

straint on growth. Spain's economic perform-ance this year has been influ-enced first and foremost by the initial impect of joining the European Economic Commun-ity, along with its neighbour Portugal, on January 1. This has provided the expected stimulus to foreign investment in Spain to foreign investment in Spain but it has also added to inflatioo through the advent of Value Added Tax, which it was necessary to adopt as a condition of entry.

More ominously, perhaps, More ominously, perhaps, EEC entry has turned Spain's former trade surplus with the Community into a sizeable and growing deficit. While tha lowering of high Spanish tariffs bas greatly eased access for imports this uncurve has not imports this upsurge has not been balanced by anything like a concomitant in exports. More favourable factors

influencing performance include a steady improvement in domestic demand and, crucially, lower oil prices, which have helped to contain inflation and the public deficit and encouraged the Government to revise its growth target from 2.5 to 3 per ceot

The Government's aim this year was to stimulate a modest economic recovary that would reduce unemployment without veering from the objectives of its stabilisation programme. Accordingly, the disturbingly high public deficit was targeted to fall to 4.5 per cent of Gross National Product and inflation to fall to 8 per cent by the end of the year-desplte the negative impact of VAT...

For money supply the growth target was reduced from 13 to 11 per cent, but the Government was resigned to wages rising slightly more than last year in line with expected cost of living

How far bave these objectives been met? By the end of August the public deficit was 18 per cent lower than in the same period in 1985, due mainly to the savings from cheaper oil and increased revenues from VAT. The deficit has been keeping

The Government hopes to reduce the deficit oext year to 4 per cent of GDP, hut it is likely to be constrained by the high bad to revise its 1987 inflationspending of some state enter-prises and the continning large

outlays on social accurity. Another major government priority, curbing inflation, bas been adversely affected not only by the introduction of VAT but by an unexpectedly sharp rise (13.4 per cent) in food prices. By the end of October the year-on-year infletion rate was running at 9.5 per cent, after jnmping 1.1 per cent in September alone. Tha Economy Minister. Mr outlays on social accurity. its inflatioo-linked wage mod-eration plan. The unions regarded 4 per cent as unrealistic Even so, the Government optimistically expects to see inflation down, by 1988, to around the present Europeao level of 3 par cent.

If it succeeds, says Mr Fernan-dez Ordonez, Spain would then consider joining the European after inmeng 1.1 per cent in September alone. Tha Economy Minister, Mr Carlos Solchaga, has rejected food price controls: instead he has liberalised a numher of agricultural imports in an effort to hring down costs and prices. Meanwhile, the all-important Inflation disparity betweeo Spain end its EEC partners has widened alarmingly, reducing the competitiveness of Spanish exports and the chances of stemming the deepeoing trade daficit with the rest of the Com-munity. The EEC takes over 60 per cent of Spain's exports and provides almost balf its imports. The peseta has generally held fairly steady against other EEC currencies this year, but given the faster growth of Spanish costs and prices it has appreci-ated in value in real terms. Some economists foresee the Modelary System. The closely-related exercise of controlling the money supply has met with marginally more success. After rising in the first part of the year, hy early Septemher it was within the 11 per cent growth target as a result of the Government's tighter interest rate policy.

Improved money supply figures, and the stable outlook then led to a slight fall lo inter-hank interest rates, but in October public sector financing needs once again hoosted the money supply, taking it slightly over target. Private sector demand for credit remains relatively weak, however, and the Central Bank does not expect interest rates to rise in

Some economists foresee the Government effecting a man-aged depreciation of the peseta early next year through Central Bank selling, hut that would have to be contingent on lower

expect interest rates to rise in the immediate future. The Gov-ernment is aiming to bring money supply growth down to 8 per cent next year. The expansionary effect which the substaotial inflow of funds from Spain's paymeots surplus might have had on the authorities' monetary control calculations has been largely offset by early repaymant of foreign loans. Total private and public aector deht fell from its 1984 peak of almost \$31bn to \$26bn by Septemher aod the authorities bope to see it fall to \$24bn by the year end. Similarly, the strong inflow of investment funds from abroad, attracted partly by a booming inflation in the meantime. The husiness lohby, the CEOE, nevertheless feels strongly that the healthy balance of pay-ments, particularly in invisibles.

ments, particularly in invisibles and on capital account, gives hope for soma devaluation whicb, they say, would greatly boost export competitiveness. But the Government remains committed to a stable exchange rate. For the Secretary of State for the Forceman Mr Miguel attracted partly by a booming stock market, has also led the for the Economy, Mr Miguel Angel Fernandez Ordonez, it is an essential element in the antiauthorities to take countervailinflation programme, together ing measures. To bead off exces-with the removal of protection- sive domestic monetary growth, ist barriers and, crucially, the the Government is control of wages through an Spanish resident agreement with the unions. on foreign stock

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Although Spain has until 1990 to adopt EEC rules on the free The Goverment uas, however, reduction target from 4 to 5 per cent, to gain union hacking for circulation of capital, the Gov-ernment is moving prematurely because it also fears the uncompetitive effects of a stronger peseta that would result from excessive capital inflows.

On the wages front, negotiated settlements had led to a general rise of around 8 per cent by September, slightly higher—as expected—than last year. The treod is expected to continue to the end of the year. Domestic demand, from both

consumption aod investment, remains the main stimulus to growth, which is oow expected to finish up between 2.5 and 3 per cent this year. The economy is being led by lower interest rates, an improvement in corpo-rate profits, foreign iovestment and a degree of restocking. But the relative improvement But the relative improvement in economic growth is nnlikely to make a serious dent io ucemploymant, which is increasing at a faster rate than last year. Though new jobs are being created the problem remains essentially unsolvad. Youth uncemployment in par remains essentially unsolvad. Youth unemployment, in par-ticular, is likely to worsen as the affects of the baby boom of the 1960s make themselves felt. Lahour mobility is not helped by protectionist housing legislaion which discourages people from moving to places where johs may be available hut hous-ing costs more. Home owner-ship is far more widespread in Coning them is generally real. Spain than is generally real-

Last year the Government introduced liberalised rent contracts in an attempt to loosen some rigidities. Similar moves some rigidities. Similar moves are being made right across the economy, especially in the labour and capital markets. Indeed, if the Socialist Gov-ernment's economic policy has a leitmotiv, it is market liber-alisation and deregulation as a means of achieving the flexibil-ity and productive efficiency the country needs if it is to respond soccessfully to the

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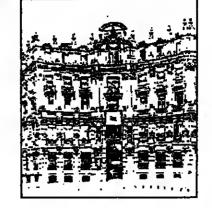
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interest rates high, hampering	Peseta V. USA (annual average)	76.36	107.00	143,43	100.70	210.04	Trants
investment and job creation.	Public deficit as % of GDP	3.0	5.3	5.3	5.8	6.2	4.5*
The latest trends of public sec- tor horrowing, however, make it	Investment as % of GOP	20.3	19.7	18.8	20.0	20.3	21.0
for from certain that the end-of-	* Projection + Actober, + September,	§ November	7. 1P	rojectioo base	ed on 3 per	cent GDP	growth, and
year target of 45 per cent of.	Investment growth of 7 per cent.						
GDP will be met.	The second s					أستحد المتكفف	

# Anxiety felt on both sides

Continued from Page 2 ····

the two governments at length agreed on adjustments "aimed" at the phased reduction of the US military presence in Spain, based on the assumption by the Spanish armed forces of speci-fic reponsibilities and level of security for both countries and their allies."

As a " first step in the fulfil-ment of its commitment" the US annonced it was reducing 10 per cent of its military service

personnel at the most poli-tically sensitive hase of Torre-on the two sides' different jon, substituting (mainly Span-isb) civilian personnel. Because of its proximity to Madrid, Tor-The US insists that any reduc-tions."

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Real GDP growth (% from previous year)

Corrent account balance (US\$bn)

**Basic data** 

Inflation (%)

Exchange rate:

or ns proximity to Madrid, Tor-rejon has frequently heen a tion in its troop levels or target for left-wing protest mar-installations must be matched this amonnted to little more maintain "the overall canabili-tion of the tion of t

tions on US troop reductions have taken place since last December's preliminary accord. While officials decline to reveal any details, it appears

than a cosmetic gesture. So far two rounds of negotia-tries and their allies." The Spaniards counter by stressing they have no wish to destahilise the overall leval of western security and rebutting

the implication that its mainte-nance depends on their exact substitution of "a plane for a plane, soldier for a soldier." Modern military technology, they argue, would allow the Americans to transfer some of Americans to transfer some of their roles and missions to other allied countries, where the populace has expressed fewer inhihitions about the size of their military presence. (There are about 14,000 US servicemen and dependants in Spain.)

A hroad spectrum of Spanish opinion also thinks the Amer-icans ere osing thair Spanish hases for purposes other than the Neto mission of moreman

the Nato mission of safeguar-ding the alliance's southern flank and providing in-depth support for the central froot. There is widespread suspicion that the bases also serve purely American national interests, particularly in the Middle East where Spain has no wish to see her relations com-promised by US actions.

The Torrejon air base in par-ticular, with its long runway, offers important staging facili-ties for big US transport aircraft in the event of a crisis in the eastern Mediterranean. With or without its nse in last April's US air raid on Libya, it was sing-ularly fortuitous for Mr Gonzalez and Nato interests generally that the raid took place

just a month after, rather than before the referendam oo membership. The US side bas anxieties of its own. The negotiating delega-ton ia led by the new ambassa-dor to Madrid, Mr Reginald Bartholomew, wbo successfully negotiated the renewal of US hases in Greece despite the dif-ficulties posed by the premier,

Mr Papandreou In the present negotiations

with Spain, Mr Bartholomew will he anxious to avoid creating any precedent which could affect the status of US installa-tions in Greece or Turkey.

On the question of Spain's integratioo or otherwise into Nato's military command struc-ture, the Government has been emharrassed by the disclosure of a confidential memorandum which it snhmitted to alliance beadquarters in Brussels, stat-ing that Spain was ready to negotiate new agreements on military co-ordination and par-ticipation in joint Nato plan-

Although the Government has presented its position as mod-elled on that of France, its prop-osals would give Spain a much closer relationship with the alliance. Unlike France, Spain aniance. Unite France, Spain is already a member of Nato's military committee, defence planning group and nnclear planning group (NPG), in which latter hody she has upgraded ber representation from embessed arial to ministerial amhassadorial to ministeria level

The Spanish Defence Minis-ter, Mr Narcis Serra, sees no incoosistency in Spain beloo-ging to the NPG while formally eschewing co-operation in the alliance's integrated command structure and refusing to bar-bour US nuclear weapons. He describes the Spanish position as "very similar" to that beld by other Nato powers like Caoada and the Scandinavians. The US looms large in Spain's

economic life as a trading partner and source of investment US corporations provide jobs and tha modern managemen methods which Spain needs to snrvive in the more competitive climate of the European Community.

Since joining the EEC and Nato, Spain has gone a long way to regularise its political relatiooship with the US, and place it on a level more akin to that of other western social democracies. Mr Gonzalez osed a revealing metaphor when, in an address to the Trilateral Commission earlier this year. he spoke of Europe as constitutthe pariiamentary opposi iog \* tion ' in the western alliance.

### David Rudnick

# Spanish Real Estate

Lesson 1

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Financial Times Monday December 1 1986

Spain 4

Trade

# Patterns start to change

LESS than a year bas elapsed since Spain joined the Euro-pean Economic Community but already a change in trading pet-terns is evideot. Imports from within the EEC now represent 48 per cent of the total, compared with 35 per cent last year, while other Commun-lty countries take 61 per cent of ty countries take 61 per cent of

Ity countries take 61 per cent of Spanish exports against 50 per cent last year and when Spain wes still on the outside. Since tha first tariff reduc-tions in March, West Germany bas supplanted the US as Spain's leading supplier, in-creasing its sales by a third and its markat share by almost half. Most of Spain's new EEC part-Most of Spain's new EEC part-ners have increased their exners have increased their ex-ports. Portugal's are up by 52 per cent, partly as a result of companies using it as a "back door" for seeding products tariff-free to Spaln. (Portugal was formerly a membar of the Eoropean Free Trade Associa-

tion whereas Spain was not.) UK exports have so far benefited least from Spain's EEC mamber-In the other direction, Spaln has increased its exports to most other EEC countries but

especially to France, which has extended its lead as Spain's blg-gest export market. Only the UK and Italy have so far taken fewer Spanish exports than a year

ago. The trade surping which Spain formerly enjoyed with the EEC disappeared in May, to be repleced by regular monthly deficits. Whereas in the first three quarters of 1985 Spain ran e surplus with the Community of over Pta 200bn in the same period of this year she ran a deficit of nearly Pta 47hn. Looted at another way in the Looked at another way, in the first nine months of member-ship Spanish exports to other EEC countries rose 5.8 per cent, her imports.

while imports rose 25.8 per cent. The turnround was widely expected, bowever. Since Spain already sent half of its exports to the EEC before sha entered. and the tariffs on Spanish goods and the tariffs on Spanish goods entering the Community were already low (around 3 per cent), there was little prospect of spectacular gains arising from better export conditions. On the other band, Spanish producers now find themselves faced with much stiffer import

high tariffs start to come down high tariffs start to come down Tariff reduction sbows signs of bearing especially hard on pre-viously highly-protected sectors EEC,

Property Sharp demand for office space

LEADING TRADE PARTNERS 500-Pesetas West Germa Exports Imports France

mal tariff was reduced this year from 36.5 per cant to 22.5 per cant as a first step towards its total elimination in six years' ness and productivity in adap-ting to EEC membarship and it rejects "quick fix" solutions

rejects "quick its solutions like peseta devaluation to solve e long-term problem. Indeed, the Secretary of State for the Economy, Mr Miguel Angel Fer-Togather with substantial quota increases, the change brought a volumo increase of brought a volume increase of almost 60 per cent in imports in the first half of the year clone. Spain's inability, at least in the short run, to offset the surge in imports with greater access to Community markets could give the trade deficit e long-

Economy, Mr Miguel Angel Fer-nandez Ordinez, regards defence of the peseta, in pur-suence of price stability, as a definite policy objective. The Trade Secretary Mr Luis Velasco expressed a consensus viaw in eccing the key task as tho reduction of the high infla-tion rate. With Spanish inflation et 9.3 per cent remaining obsti-nately much higher than in other Community countries the key to boosting export comterm character. Hore it must be said that Spain's overall current external secount is comfortably in sur-

secount is comfortably in sur-plus, buoyed up by lower oil and commodity prices, tourist and invastment income, end the peseta's rise against the dollar (25 per cent ovar the past-18 months), in which currency Spain pays for 60-65 per cent of her imports. key to boosting export com-petitiveness is seen to lie in implamonting effactiva anti-inflation measures.

Inflation measures. In October the Government announced a series of unsche-duled tariff cuts for food imports, notably on the EEC'a soft wheat surplus, in an effort to control sharply rising food prices The current eccount regis-tered a surplus of \$4.6bn in the first three quarters of this year, 20 per cent up on the sama period of last year. The IMF estimates that the surplus could reach \$5.5bn for 1986 as a whole. It may be significant, howev-er, that in the first nine months of this year non-energy imports The imposition of value added

The imposition of vaina added tax, which Spain had to adopt as a condition of EEC ontry, and abolition of the tax rebate pre-viously offered to exporters, are frequent objects of complaint by Spanisb businessman. The Confederation of Spanisb Busi-ness Organisations (CEOE) performed it as particularly profair of this year non-energy imports were 13.9 per cent up on the same period of 1985, while total exports fell 8.3 per cent. The IMF is forecasting a significant fall in the surplus cent year, and regard it as particularly nufair that their members should have to pay much larger social secur-ity contributions than their

eign competitors

It is generally recognised that more concerted export drive and a stronger government cam-paign to promote overseas sales are needed. The Institute for the Promotion of Exports (INFE) was recently set up to finance consortia of smaller and medium-sized companies which co-operate to export common products. INFE's budget, at around Pts 7.5bn, is small compared with that of its competi-tors, and the CEOE would like the government to devote 1 per cent of total export income to export promotion.

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This would give INFE four or This would give INFE four or five timas its present budget, though CEOE estimates that the exchequer could find this money at no net loss to revenue by nsing the sums it is saving from the abolition of export tax relief. But the Govarnmant, according to CEOE, plans to in-crease INFE's budget next year by only one-third to around Pla

European Community sources say they find INFE remarkably efficient and anbureaucratic by Spanisb standards.

But others take the view that apending more on promotion cannot begin to offset the loss in competitiveness occasioned by tha naw tax regime. Prof Fran-cisco Granell, of the Barcelona Chamber of Commerce, esti-mates that the abolition of the export tax rebate is costing ox-porters a total Pta 150bn, or 20 times INFE's annual budget.

**David Rudnick** 

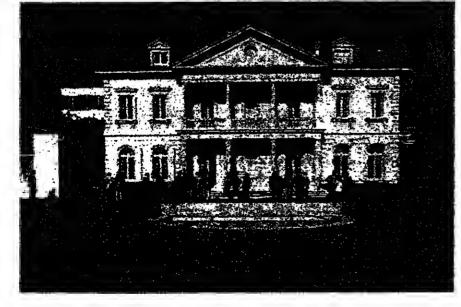


200 The Socialist Government rec-ognises that Spain faces a prob-lam of inadequate competitivelike the car industry. The nor



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IN SEPTEMBER Haron Inter-national, the UK-based property and finaocial sarvices group, beat nios competing compsnies to aconire Inmobi-liarias Reunidas, which formerly belonged to Rumasa, the private holding which was expropriated by the state in

1983, whao it was allegedly bankrupt. Two months later a Swiss group that had narrowly lost to Heron, bought the mein Madrid offices of Benco da Santander. It was the costliest purchasa by far of e singla building in Spain and one of the most expensive

In Europe. Heron eoded up paying \$78m for its ecculsition, which comprised some 200 mainly small office pramises scattered around Spain end one, the twin towers known as the Torras de towers known as the Torras de Jerez, occupies a prime site on Madrid's main boulevard. El Paseo de le Castollana. Tha price paid for the Torres, which could not be acquired separ-ately, was \$30m. The acquisition included an agreement by the company to invest e further \$222m in Span-ich rest estat over the cost fau

ish real estata over the cext few years. This is unlikely to he a burden for Haron. As Haroo said at tha tima of tha Inmobiliarias Reunidas ecquisition, there are now " unique opportu-nitias" to buy into offico rental space, which is " much in demand followiog Spain's entry into tha EEC." Heron already owns an office

block on the Paseo de la Castel-lena and the prica per square metre on the boulevard hes risen from Pta 1.600 at the and of 1984 to Pta 1.800 at the end of last year. Last June the squere matre stood at Pta 2.200 and in Novembar it was no to Pta 2.200 November it was up to Pia 2,300. Tha Swiss rivals for tha Tor-res de Jerez paid \$76.3m for tha Benco de Santander building, which is also on tha Paseo de la

Castellana. The premises com-prise 36,000 sq m, of which 25,000 are available for office The new propriators, who include the weich manufacturer Rium and the propincluda the waich mannfacturer Mr Pierre Blum and the prop-erty devaloper Mr Michael Tnrin, agreed to have Bonco de Santander stay on as tenenis for at least three yeers and not more than five, while tha bank's new premises, a smailer 100-year-old building on the same boulevard, is refurbishad. Whila the September and the room space of 105,000 sq metres, new Birmingham is somewhat smailar with \$3,000 sq metres, eronference hall to seat 20,000, nal park with swimming pools, sports facilities and e golf course. The first phase of the complex is due to be completed by 1988. The spenish Government and the other investms behind the Cranes were di work once more cranes were al work once more oo the Paseo de la Castallena and close to the Santander buil-

panish capital

. . . .

The new landmark on the Madrid skyllne will be e 45-storey office block, with 87,000 sq m of available space, called the Torre de Picasso.

This exceedingly tall building represents an investment of more than \$50m et present and it is scheduled to ba completed aarly in 1989. Property-watchers in Madrid

say: however, that the Torre de Picasso's ownars. Portland-Val-derrivas, a subsidiary of the UK cament company which bas the controlling interest, and Explo-sivos Río Tinto and Banco Zara-

sivos Rio Tinio and Banco Zara-gozano, are spaeding up the work on the site and that it could be ready for use before the and of 1888. The urgency reflects the extraordinary and growing demand for office epace. Over tha next two and a helf years some 175,000 sq metres of office space will be coming on to the market in Madrid, with the Torre de Picesso accounting for half the amount. Property experts say thet at laast 250,000 sq metres' worth could be taken up during that period if it were

To judgo by the property deals up during that period if it were available.

The present vacancy factor of soma 48,000 sq metres of office spece currently availabla for sale or letting in Madrid is only

1.58 per cont. But the real indicator that EEC membership has changed the face of the Madrid property market is an ambitious plan, market is an amoutous plan, unvelled this year, to build a big trada fair cantre, to be called the Campo de las Naciones, on the outskirts near the inter-

work began in October on the work began in October on the exhibition and conference com-plax which will cover an area of 43m sq metres. The initial infrastructure outiay of just over \$70m bas been put np by tha Government, the Madrid City Council, the Madrid area regionel government, the local chamber of commerce end the Madrid Caja da Aborros savings bank.

bank. The plan is to build six exhibi-tio0 pevilious with e total show-room space of 105,000 sq metres (the Natione] Exhibition Centre near Birmingham is somewhat smallar with \$3,000 sq metres), e conference hall to seat 20,000, two batels and a large recreatio-nal park with swimming pools, emorts facilities and e solf

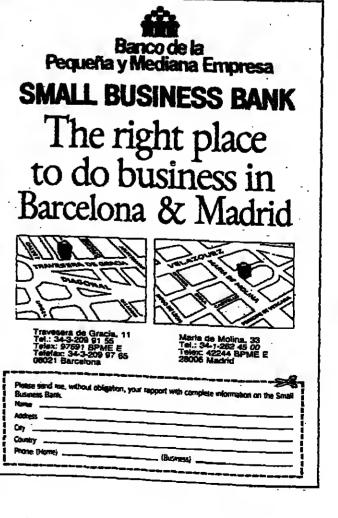
is due to be completed by 1988. The Spenish Government and the other investors behind the Campo de Ise Naciones have decisively betted on the con-tinued growth of Modrid and are ding, on e development that symbolisad more than anything else the property boom in the determined to build facilities that will rival those found else-where in tha EEC. Over the past four years the space aveilable

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The Rumasa towers at Plaza Colon in Madrid

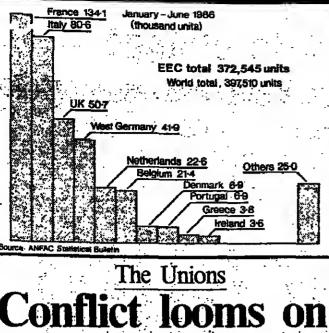
for trade fairs in Madrid has over the past three months such nearly doubled to total 210,000 optimism is sbared by the inter-sq motres and visitors to Madrid national property Investors. exhibitions have increased from 800,000 to 2m.

**Tom Burns** 



Spain 5

### SPANISH CAR EXPORTS



# government labour reforms

is now low and falling. An Inter-national Labour Organisation report four years ugo estimated it at no more than 17-25 per cent of the unreference of the workforce. When the last union elections

when the last union elections again light hallowwide elections were held, also four years ago, to choose shop-floor dalegates. 36.6 per cent of the elected shop. These latest elections, which floor delegates belonged to the began on October 1 and finish at Socialist-led Union General de the end of the year, are Trabajadores (UGT), while 33.4 expected to confirm, and prob-per cent represented the Com-ahly enhanca, the UGT's advan-manist-led Comisiones Obreras tage over the Communist-led COM (CO). The remainder belonged to various minority and regional groups. In the Basque region,

bowever, the local union (ELA/ STV) remains stronger than either of the two main national unions, though for historical reasons it is closer to the UGT. The CO is more tightly orga-nised than the UGT and less open to the charge of collaborating with, or even selling out to,the present Socialist government. UGT, on the other hand, benefits from more inter-national recognition; it belongs to the European Trade Union

sectors.

Bedalling to the State Confederation, which the CO would like to join. The UGT generally attracts -15-5-2 ## 1833 : . . AN TAX "SLATE STOP INTE A COLLECTION AND A

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UNION membership in Spain ment-boosting measures. The agreement expires at the end of the year but negotiations on its renewal have been held up because of the rivalry between the two big union gronps as they again fight nationwide elections

ahly enhanca, the UGT's advan-tage over the Communist-led CO. But until the full results are known little progress on the renewal. of the tripartite incomes policy can be expected. The CO declined to join in the

abour pact two years ago, leav-ing the UGT as the only signa-tory. UGT leaders say they would welcome CO participation in a new agreement end in September the Economy Minister discussed the possibilities with Mr Camacho.

If the union election results indicate popular, endorsement of the UGT's collaborative policy tha CO leader may well deem the time ripe to associate his federation with it, Mr Chaves, the Labour Minis-

ter, says the Government would more members employed in the like to see the CO "come on service sector, and it has board," but he does not believe recently made advances in big it is likely to happen. He fears it is likely to happen. He fears that union demands for wages in foreign-owned factories like that union demands for wages in Ford, The CO draws most of its excess of the forecast 5 per cent strength from the older manu-facturing and heavy industrial inflation rate might erode Spain's competitive position in the EEC next year.

Both Socialist and Commun-Meanwhile, tha strongest focus of inclpient conflict between the Government and the initiate lies in the field of labour, market reforms. The ist-led federations accept Spanish membership of the Euro-pean Community and both unre-servedly welcome Toreign investment. Several reasons, are addneed netorious rigidity of Spain'a hir-ing and firing laws, a legacy of for the low level of union membership. The Labour and the paternalism of the France régime, is widely seen (though Social Security Minister, Mr not by the unions) as a key factor senior UGT leader, believes preventing labour mobility and that only a decade after the end. job creation. of Francoism the workers have apparently not yet acquired the habit of participation in dome.

Domestic demand picks up in all sectors finance

THE MOTOR industry has demand actually began in the played e key role in the growth last quarter of 1985, fuelled by and modernisation of Spain's huyers' eagerness to beat the economy since the early 1980s. introduction of value added tax, Today, with annual output of cars and commercial vehicles which Spain had lo adopt on joining the Enropean Economic touching 1.4m units, the Spanish motor industry is the fourth Community at the start of this year. The home market's continuing

volume hase.

Austria.

largest in Europe, behind West buoyancy may be partially due to continuing inflationary expectations, though most mar-ket observors do not expect it to Germany, Franca and Italy, and tha sixth largest in the world, All the major European volume car makers, together with Ford and General Molors last. For the moment domestic-(GM) manufacture in Spain, attracted by still-competitive sales are uncharacteristically expanding much fasher than exports, which stagnated (down wage costs, its originally high tariff protection, and conve-nient situation as an exporting 0.2 per cent in volume) hetween January and August Citroen again registered the biggest drop (26 per cent), hut the other French producers, Fasa Renault and Citroen's base. Exports account for 64 per

cent of the industry's output. The multinationals' strong export orientation has in recent from the Motor Industry Manufactuers' Association (Anfac) static, but on an already high show internal demand picking volume hase. up in all sectors except tractors and all-terrain vehicles (ATVs).

Domestic producers' sales of cars-by far the dominant sector-grew by 7.4 per cent to August 1986 over the corresponding period of 1985, with GM showing the biggest increase (39 per cent), while Citroen's sales fell by 16.4 per cent.

The heavy truck sector, pre-viously the most depressed, saw home sales rise by 32 per cent, with Motor Iberica (Nissan) showing the biggest increase (78

per cent). mercial venicita The upswing in domestic latter category.)

Tha finance ministry, however, maintains that before VAT was introduced the tax regime was if anything harder, since it was based on a 24 per cent luxury tax, plus a 5 per cent service tax which, hecause of its cumulative impact (the "cascade" tax) put the final tax

Motor industry

above the present VAT rate. Wherever justice lies, the Government is unlikely to yield to industry pressure to lower VAT since it needs all the revenue it can raise to cope with poblic deficit. The EEC takes the hulk of

Spain's car exports, but since Spain joined the Community imports have also shot np, to 60,000 units in the first half of 1986 from 37,000 units in the same period of 1985.

years been encouraged by a related company Peugeot Tal- Imports, therefore, take up relatively sluggish home mar- bot, increased their exports hy about 16 per cent of the Spanish ket, hut the most recent data 37.5 and 10.5 per cent respec- market, and as tariffs come tively. Ford and GM remained down under the terms of Spain's EEC accession treaty, imports from Community partners seem set to rise further. Some

GM is the biggest volume analysts expect import penatra-tion to reach 20 to 25 per cent in seven years' time when tariffs on EEC imports are completely erporter with sales running at an annual rate of 220,000 cars, bat in value added terms it could be Ford, since GM import their engines and transmissioo down To meet this new competition, systems from their plants in

the Spanish Government is tak-ing steps to strengthenad the industry. Ford and GM, already Car manufactneers tend to ba bitter at what they see as a discriminatory VAT rate of 33 per strongly geared to exports, do cent, treating cars as luxury nol feel seriously andengered goods rather than consumer hy an import squeeze, but comgoods which only attract a 12 panies more dependent on the per cent rate. (Trucks and com- home market are receiving govmercial vehicles come into this eramant aid.

The three French car makers

are getting grants and loans national giants had failen on tha totalling around \$58m towards 'Spanish taxpayer. Now, with its restructuring their current sale to VW, the burden has been Volkswagen restructuring their current multi-model operations." But the higgest restructuring more came last June with the

move came last June with the as high as the price paid by sale of the state-owned Seat Volkswagen, to put Seat's finan-concern to Volkswagen for cial housa in order. \$560m. Seat had been sustaining heavy losses since the late Seat's export performance is 1970s-last year it lost \$358m improving; in tandem with VW and the Goverment considered the investment needed to revive the company far beyond its resources.

It took several years to find a new owner for Seat, after it had been abandoned in 1980 by its former partner Fiat, and Volkswagen only agreed to taka on the company after the Span-ish Government had pledged a \$1.2bn eid package to halp cover its debts. VW plans to rationalise Seat's

workforce-already reduced by 10,000 sinco 1980-to around

17,000 by 1992. Seat's president, Mr Juan Antonio Diez Alvarez, rebuts criticism that preserving Seet as a separate company is small a separate company is small recompany for sealing off Spain's only domestically-owned car maker at the tax-payer's expense. Right from the start, he says, in the 1950s when Seat was set np as Spain's seat was set up as spain's national car company, the Gov-ernment had sought foreign eapital—then Fiat—to provide technology, know-how and export marketing support. With Fiet's withdrawal, the excessive hurden of knowing

excessive burden of keeping Seat competitive with the inter-

lifted, even if it has involved the Ford taxpayer in e final outlay twice. General Moto Talbot Peugeot Citroen

Others Despite continuing losses, Source: 1985 Go ANFAC estimates. they have huilt a new dealer-ship network abroad, and they expect to benefit from VWs to look after itself financially,

enormous purchasing power when anopping for components. Another troubled company, in the commercial vehicla sector, is Barcelona-hased Motor Iber-Ica, over 90 per cent owned by

Nissan. The Japanese originally bought Massey Ferguson's 36 per cent stake in Motor Iberica in 1980, hoping to use Spain as a springboard to penetrate European markets otherwise closed off by quota restrictions.

Bot so far things have not quite worked out as planned; Spain's depressed light trucks sector disappointad bopes and necessitated successive injec-tions of Nissan capital Mr Juan Echevarria, Motor

Iberica's president, is confident however that 1986 will prove to have heen a turning point; he is hopeful that losses will start to come down-to Pta 9.5bo from Pta 10.5bn last year, and that with short-term interest rates falling, financial charges will represent only 8 per cent rather than 9 per cent of sales. By 1990, Mr Echevarria

expects the company to be able

though it will always remain technologically dependent on Nissan. Paradoxically for such a loss-making company, Motor Iberica enjoys a dominant market position: trucks 55 per cent (one million nnits), commercial vehicles 50 per cent, four-wheel drive vehicles 56 per cent. Ford, celebrating ten years of husiness in Spain, is in mellow

**Market Share** 

Car Producers in Spain

2985 % 31.2 11.7 8.4 14.2 11.7 12.7 6.1 4.2

mood. Mr Patrick Byrne, managing director of operations in Spain, sees the company's main challenge as matching the cost efficiency of the Japanese. Though the company is one of the most profitable in the industhe most promanic in the inter-try, he says that increasing com-petition, particularly now from imports, has "reduced tha size of the cake, with more people

competing for a plece." Mr Byrne nevertheless con-firmed that after an "alarmingly slow start" this year, the Span

ish market has been growing faster since the second quarter. There would appear to be room for some optimism that demand in Spain has embarked on e sustained climb.

**David Rudnick** 



1956 % 27.8 12.3 7.7 14.3 13.2 11.6 5.0 8.3

figures; 1986

habit of participation in democratic trade unions.

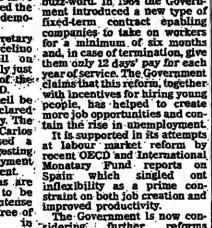
cratic trade unions. The vateran general secretary of the CO. Mr Marcelino Camacho, blames it all on unemployment, at officially just undar .22 per .cent one of the: highest rates in the OECD. Another reason may well be the prevalence of undeclared jobs in the black economy. The Economy Minister. Mr Carlos

John in the black economy. The Economy Minister, Mr Carlos Solchaga, recently raised a political storm by suggesting that the real mnemployment rate was nearer 15 per cent. The main trade unions are none the less a force to be reckoned with and their intense rivalry can lead to a degree of competitive militancy in formulating demands, with the UGT anxious to disprova the

Tou ?

March.

Empresa ESS BANK t place iness in



sidering further reforms designed to liberalise the labour market. Chief among them are the proposed abolition perennial charge that it meekly adheres to tha Socialist Governof the statutory minimum wage ment and its rigorous economic

for workers aged 18 to 24, the reduction of redundancy pay-ments, the extension of short-term contracts, and removal of The UGT's actions over the past year are certainly not hose of a Government poodle. It forced the Government to meet contractual obstacles to parttime employment.

forced the Government to meet its objections and amend an important new pensions law. Then, entirely against Govern-ment policy, it campaigned for a "no" vote in Spain's Nato membership referendum last

time employment. The unions in general reject these proposed reforms, which they see as a thinly-disguised method of undarmining job security and advancing tha bogey of instant dismissal. Mr Jose Maria Zufiaur, a lead-ing UGT official and publicist, regards labour market rigidities as merely the latest scapegoat for tha country's economic ills. If labour market rigidities really are so serious, asks Mr Most recantly, and Impor-tantly, the UGT has forced tha Government to revise its 4 per cant inflation target for next year to 5 per cent as a condition for its continuing support for an really are so serious, asks Mr Zufiaur, why are foreign com-panies continning year after year to invest in Spain, their "low-wage Eldorado?" But the unions' objections to inhore market liberalization

for its continuing support for an inflation-linked wage-modera-tion accord. For the past two years the UGT has backed this tripartite Incomes policy, agreed with the Government and the CEOE employers' organisation. Under it wage limits havo been set in archore for promises of public labour market liberalisation are not likely to deter the Government from its chosen course exchange for promises of públic investment and other employ-

**David Rudnick** 

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# Liosing Deals

Spain

# Spain 6

INI

Lame ducks come under fire ALTHOUGH Spain is a nation of Individuels—and many indi-vidualists—more and more examples of teamwork and game plans can now be observed.

observed. The careers of Messrs Carlos Solchaga, Luis Carlos Croissie and Claudio Aranzadi—and tha fortunes of the Instituto Necio-nal de Industria (INI), the sprawling public-sector holding company-are ceses in point.

After four years each of the three man finally found his niche in recent months and the trio now represent the inter-locking pieces of an administrative jigsaw puzzle-tha role and evolve. Companies in the INI group the future strategy of INI. The three agree that the pub-

The three agree that the pub-lic sector has a apecific part to play in an economy such as that of Spain and they not only see eye-to-eye on what this should be but they also have the power to do something about it. In 1962 Mr Solchaga, a social-ist marty stalwart, was

In 1982 Mr Solchaga, a social-ist party stalwart, was appointed Minister of Industry in the incoming Socialist Admi-nistration. He in turn appointed. another young socialist and economist, Mr Croissier, as bis under-secretary and had Mr Aranzadi, another contemporary in his mid-thirties, nomin-ated deputy chairman of INL

Mr Solchaga had confidence Mr Solchaga had confidence in Mr Aranzadi who, while not a Socialist, bad worked with him in the economic research department of Banco de Viz-of Spain's premier talent-spot-ter, Mr Pedro de Tolèdo, who next month formally takes over as chairman of Banco de Vizcaya. Minister of the Economy, the Exchequer and Trade, though ha had to wait another full year before he was able to fit every before into place. The chance came after the June elections and hia reappointment as the Govern-ment'a economic supremo. Mr

as chairman of Banco de Croissier was then frought into Vizcaya. In 1984 Mr Solchaga managed and Mr Aranzadi was promoted to hand the INI chairmanship to Mr Croissier. INT's losses had team was at last comniets.

continued to climb under Mr Enrique Moya, a veteran and well-connected Madrid is now being played to its limits. businessman who was certainty not a Socialist and had been given the job in 1982 precisely because of that. The new Government had been anxious at the time to still the fears of the business com-munity with "safe" appoint-ments such as thet of Mr Moya. To the surprise of just about continued to climb under Mr

In synthesis, the target is to turn INI into a dynamic indust-To the surprise of just about everybody except Mr Solchaga, Mr Aranzadi, who remained as INI's deputy chairman, and Mr

It therefore con

rial power house, promoting and stimulating here, con-solidating there and setting an INI's deputy chairman, and a solution solution of Franco's example everywhere. The public sector bot seat, e INI, the creetion of Franco's corporativist and autarchic eco-tic an excellent

corporativist and autarchic eco-nomy, is an excellent experimental laboratory for modern-minded young Social-ists like Mr Solchaga and Mr Croissier and for enthnaiastic fellow-travellare like Mr began to be sold to the private sector. Others were shut down end, in general, n ruthless attack was made on loss-making fellow-travellers like Mr Aran-

zadi. In 1985 Mr Solchaga got the job be had long sought. In what proved to be a tempestuous cahinet resbuille (it was the adi. These men believe in trategic. state-controlled strategic, state-controlled industries but they also believe that they should pay their way. only period when the Prime Minister, Mr Felipe Gonzalez, But there is certainly not e Leftist antipathy towards pri-vate enterprise. If anything, there is n will to work with it. In

has seemed at sea), Mr Migual Boyer, the controversial "Snper Minister" and the main architect of the Socialist auster-ity programme, left the Govern-ment. those instances where private enterprise can improve on state control, INI gracefully bows out without the alightest regret. Mr Solchags then took over as Minister of the Economy, the Exchequer and Trade, though ha had to wait another full year

This past year has afforded several clear examples of the strategy at work. Mr Croissier. managed to fulfil his personal ambition, before leaving to join the Cabinet, of selling off Seat, the Dilaward car manif. tha INI-owned car manu-facturer, to Volkswagen of West

There was no public ontery nationalisation of the shipbuil-over tha loss to foreign interests ding sector. of Spain's only national car manufacturer. Along with nighs Tom Burns

of relief there was e caim and realistic acceptance of the fact the Spanish economy was sim-ply not ready for such giddy industrial projects. Mr Aranzadi has e list of strategic industries which he inherited from his predecessor. It Includes defence systems, capital goods, shipbuilding and steel production A secondary list itemises sectors which are considered to have "growth" potential as well as strategic value. value.

The present chairman has also moved along the mixed company road.

Just as innovative was the decision in October to offer to private investors on the Madrid private investors on the matrix Stock Exchange a 38 per cent holding in Gersa, an INI-owned gas and electrical utility which has a successful business in the Balearic Islands.

This was very much n pilot scheme and the ensuing rush for shares prepared the way for future flotations of minority stakes in INI companies.

Mr Aranzadi meanwhile passed with great panache the "abot down the lame ducks" test. In September he was totally deaf to trade union requests that INI should take over Rio Tinto Minera, the Hnelva-based copper mining concern which was threatened with closure by Rio Tinto Zinc. Mr Croissier had passed the test in 1984 when he forced through the closure of an INI integrated steel plant in Sagunto, near Valencia Mr Solchaga had previously set the pace as Industry Minister when he began a determined

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VI

1

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SPAIN IS rushing to bridge the technology gap that' separated her too long from post-Second World War Europe. Progress has already been remarkable has already been remarkante for a country that 30 years ago was predominantly agricultural and poor, and that only set n p a National Fund for Scientific

Research and Development in 1964, when emphasis had begun to shift from farming to mann-Rapid industrial development meant heavy reliance on imported technology-in 1973, companies paid out Pta 8bn for technology imports and only managed technology exports of

Castilla-La M Castilla-León .. Catalotia ...... Extrem Basque Country Valenciana

Total

cent of GDP

Whereas only a few years ago no more than three Spanish concerns-Construciones Aero nauticas, the huge aeronautical construction corporation, and two official, institutions, were in a position to participate in the European Space Agency, today, 30 Spanish businesses are participating, contributing

feasibility studies.

Technology Projects approved

**Ambitious goals** are being set

lame ducks.

Dogged emphasis on technological innovation since the inte 1970s has already permitted a growing number of Spanish enterprises to take part in major European programmes.

technological advancement. Spending on R & D has leapt funds or venture capital flow in from a pairy 0.36 per cent of both directions, and co-ordin-Gross Domestic Product in 1982, ates Spain's participation in to 0.9 per cent this year. Next international projects like year the Ministry of Industry Eureka, Esprit, the European speed for Speed States Access and European with hardware and software composite materials and and

expects the ratio to reach 1 per

### COMMUNITY RM ragén Asturias

cent of GDP-coming gradually closer to EEC averages of 2 per

Spanish companies which devise their own research prog-

rammes can receive substantial

government help. While tha Ministries of Educa-

tion (instigating major changes

in the Spanish nuiversity sys-tem) and industry (co-ordinat-ing and instigating the mod-ernisation of Spanish industry



51

39

41

41

41.

e Agency.

project.

the European traffic control

In 1985, the CDTI channelled credit of Pta 11bn (\$65m) to

technology research and

development programmes-the largest annual figure ever, and

culminailon of a two-year drive in which three times more

money was spent on promoting R & D than in the first five years

3

ACCORDING TO AUTONOMOUS COMMUNITY AND AREA AREA OF RESEARCH (see key) ESA TOTAL EV

# We are creating the future.



المرجود ما المحادثة بعجمته يشيع كالعام تدبيتني المردرين

managed terms of the emphasis is no In 1986, the emphasis is no inger on industrialisation wherever and however, hnt on cially in medical research, modernisation, replacement of imported technology and imported technology The goals are ambitious. But

European accession and the opportunities It offers for increased Spanish participaion in multilateral and hilateral European technology projects have spurred the administra-tion to make official promotion of technology more co-ordin-ated and efficient, and companies to set up their own research and development programmes drawing on a new generation of science graduates from reformed nniversities, and on government funds to assist them with their programmes.

drug for patients with high hlood pressure. The 1983 University Reform

Act that brought greater emph-asis on R & D, and the 1986 Sciantfic Research and Development Law that permits emisation of Spanish industry smoother co-ordination of from its hustling high-tech huil-technology programmes and of ding in Madrid) oversee the co-operation between uni- major guidelines of technologi-versity and industry, are the cal innovation, working in an inchpins of the new structure interministerial commission, which forming the new structure interministerial commission. versity and industry, are the car innovation, working in an iinchpins of the new structure interministerial commission, which, Spain's younger genera-the CDTI (Centro de Desaroll tion of officials and entrep-reneurs believe, will move their formed in 1977 on the initially country higher on the scale of of the World Bank, ects as the

Farm Produce Settling in with the EEC

ORANGES and lemons, satsu-mas and elementines will bave completely free access to Euro-pean Community markets only in 1990, according to Spain's Treaty of Accession.

This prospect does not please the cltrus fruit growers of southern Spain, whose 1986-87 crop is likely to reach e record 3.79m tonnes-8 per cent more than last year-and who have had to accept restrictions on their exports to EEC countries until 1990 while non-EEC exporters

membership. The Irony of marking time for the benefit of non-EEC fruit and vegetable exporters is not lost on enterprising Spanisb grow-ers, who could turn suitable parts of the country into the outof-season flower, plant and mar-bet garden of Europe. "Joining the EEC is like mov-

ing into a new bouse," says Mr Maria Portera, secretary-gene-ral of the Confederation of rai of the conteneration of Spanish Farmers. "At first the rooms feel wrong and you can't find anything. Then you settle in. We will settle into the EEC and we intend to make a good job of it."

The drive to improve produce and market it still more energe-tically under the new EEC canopy is manifest among Spain's more afficient farmers and their trade associations. About 17 per cent of the coun-try's population is engaged in farming though this figure may

to cut flowers. Spanish growers meat rose from 49,200 tonnes in have been trying for greater January-September 1965 to volume and higher quality in 109,800 tonnes by September areas where farming has gradu-1986.

ated from subsistence level to a strong-market-orianted huslness. While in Galicia 45 per cent of

the active population still works in largely-subsistence farming where adaptation to EEC stanprominent display in London food shops are evidence of the dardisation, red tape and mar-ket organisation will he difficult for some years, in bighly-industrialised Catalonie only 3

from the Mediterranean that per cent of the active popula-have long enjoyed access to EEC ilon still farms. markets prepare for the future These early months after when Spain's transition has accession to the EEC are not ended and it gains full EEC only strained by the Commun-These early months after accession to the EEC are not only strained by the Commun-ity'a two-tiered schedule for Spanish agriculture which obliges some of its hest produce to be treated temporarily as third-country crops-they reflect the sudden, sharp impact of mnch-increased EEC agricultural imports into Spain.

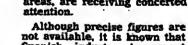
By September, according to Agriculture Ministry figures, the farm trade deficit had reached \$237m compared with a deficit of only \$7m in September

1985. The shortfall was caused not only by the usual annual fail in citrus exports at this time of year but by beavy increases in imports of cettle and animal products (meat, butter, cheese

and hides). Prices feil for key exports like flowers (down 14.2 per cent), fresh fruit, apart from citrus (dowo 16.2 per cent), and fresh vegetables (down 12 per cent). Imports of livestock trebled From citrus to onions, lentils September 1985, imports of EEC

Despite restrictions, cltrus exports as a whole increased this year to 2,167,400 tonnes, compared with 1,528,000 tonnes last year-while the Spanish satsumas or clementines now on

> growers' serious intentions. **Diana** Smith



Spanish industry in recent years, especially export-oriented companies, has been investing more in research, biring more science graduates and accepting in growing numbers that without methodical invest-ment in development of domesment in development of domes-tic technology, in new quality controls end modern mann-facturing and date processing techniques. Spaniah industry, wbich has an amhition to grow and prosper in Europe, will not be eble to keep up the pace.

**Diana** Smith



BET BET German hand of the CDTI's existence. The priorities for Spanish R & 125 MELLES SEATH D are in agriculture and offshoots like production of algae, new techniques for Final 22 4.77 17.78 lage to minist a minist A set of the State of the set marine resources, new food pro-ducts, blotechnology and medicine, electronics and data pro-cessing, and manufacturing techniques.

Just as urgently, energy savings, in n country where energy is expensive and heavily reliant on Imports, and protection of an environment that is seriously polinted in some industrialised areas, are receiving concerted

-----A leadin

trading

Financial Times Monday December 1 1986 Spain 7

Small Businesses

# Learning how to survive

"JOINING THE Common Mar-ket is like opening a door and tions put 65 per cent of the bur-letting in an ley blast," says Mr den of social security financing Elias Aparicio, the energetic on the employer, compared with young secretary-general of the an average of 49 per cent in the Confederation of Spanish Small EFC. and Medium Rusinesses High financing costs and and Medium Businesses.

"Obviously, you could shut the door again to keep out the cold air. But you could also be bol-der, turn np the central heating and put on warmer clothing. What we need is more efficient heating and bottom distance it heating and better clothing."

heating and better clothing." There is no onestion of "slam-ming the door shut," against the European winds of change, but to Mr Aparicio and the members of the Confederation the Span-isb Accession Treaty did not stoke the national boiler up enough and the pace of change in legislation to meet EEC demands has been too slow to offer businesses sufficiently warm clothing to save them from catching a few colds. Trade figures for tast Septem-

Trade figures for last September show the effect of the chill: e deficit of Pta 36bn (\$216m) in trada with the EEC compared with a surplus of Pta 12bn (\$72m) in September 1985.

Spain's protectionist barriers are collapsing and small and medium-sized businesses are struggling to meet the new, aggressive competition with trade weapons that are, in their view, deficient.

hard to move employees from one job to another inside a compagy without lengthy union where all for negotiations while punitive applications,

otional body that operates nnder the aegis of the National

High financing costs and exhaustive (and to some kilometres of red tape-a heritbusinessmen, exhausting) information about legislation age from the old, oppressively-protectionist economy-are and procedures. Despite the frustrations of other main obstacles to quick adjustment to new competitive pressures and management many small-to-medium businesnethods.

certificates

Wine

No longer a 'plonk' image

190

men with excessiva manage-ment costs and rigid labour Stronger market forces and laws, there is a constructive disless Governmental weight are logue between business and Goverment and in many areas a the ultimate goals of a small-to-medium business sector that useful feedback. employs 57.8 per cent of all Spanish workers. A bost of com-panies, many with fewer than 10 Realistically recognising that Spain, to compete effectively, must move its products np-mar-

employees, notably in the furni-ture, footwear and accessories sectors, are gingerly learning ket and not down-market, and create an image of high quality, bold design and fashion-con-sciousnes on the international how to survive in a mnch bigger and more complex market that Government and has no place for businesses which resist adeptation.

ecene, Government and businesses are working to achieve the "Spanisb look." With state help for technologi-cal development, hiring desig-ners and textile researchers, which resist adeptation. The problem of bureancracy in s nation where incentives. and support go hand-in-hand with labyrinths of red tape-unless the entreprenenr can resort freely to (expensive) mar-het financing for his projects-is a perpetual irritant, es readily recognised by the Gov-ernment as by the entrep-renenrs. ners and textile researchers, setting up laboratories, and improving production methods, Spanish companies are not only accepting that good design is potentially profitable—not a fri-volous frill—but enthusias-tically striving to nograde the textile and clothing industry.

Here and there steps bave been taken to reduce bnreancracy or make it more comprehensible. In Madrid the local anthorities have estab-

lished the "single window," where all forms, documents,

group than on one's own, a num-ber of companies are combining to operate in greater strength in marketing, consultancy work or

Going a step further and bringing Spanish small or medium businesses together exhausting) with other EEC companies in a similar or complementary line, is slightly more difficult, but interest in the idea is growing fast

> Spanisb businessmen are not saying "manana" about the problems of EEC accession that lie not only in sloughing off uncom-fortable and antiquated legislation but elso in adapting en masse to EEC standards of qual-lty. The small business ethic is deeply rooted in the Spanisb character. Statistics show that of the average of Pta 11-13hn (\$66m-78m) that are invested daily in the Spanish economy most are derived from the assets of small businesses.

There are 400,000 such businesses in all the provinces of a country that bas turned its back on Franco's attempts to bomogenise its language, customs and attitudes.

The post-Franco antonomous communities bave been drawn into the efforts to anpport and co-finance small business Next on the standard-raising co-finance small business genda are furniture, footwear, investment and strengthan a agenda are furniture, footware, investment and strengthan a jewellery and other accessories, sector that aims to be a strong largely made by small com- driving force in the economy panies with a lot of creative and an important presence, energy but not always a strong within the EEC. sense of direction. On the principle that it is Diana Smith

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VII



DESPITE a growing acceptance of Rioja and one or two other still and sparkling wines, Spain has still not quite shaken off its Sales of sherry old image as a producer of bulk lotties rather than quality wine. . In line with its image as a cheap package boliday destina-United Kingdom The Netherlands tion, its reputation as a supplier West Germany of cheap, cheerful, frankly down-market wine is somewbat US unfairly persisting in the more quality-conscious 1980s.

renenrs'

But Spain is no longer a mass supplier of very cheap wine, the famons plonk (or "plunk" as tha Spaniards say). The proportion of bottled wine with a control-led. denomination of origin label and sold abroad is rising Total est. consumption

Source: Institute of Sherry Exporter

label and sold abroad is rising rapidly. The trend is most is expanding budgetary noticeable in the UK and some resources for 25 millist alendar what 'less on the Continent, year, and well, over f2m sche-wbere Spanish bulk imports are duled for next year—are enab-still blended with local wines ling, it to make more impact Even if Spanish wine is slowly' Last summer f500,000 was spent starting to acquire 'a' more on informing UK television respectable image, much prom-viewers of the delights of lesser-olonal work still needs to be known Spanisb wines from done to defend, and where Penedes and Navarre, possible advance, its share of But these sums pale some-



Sherry-tasting at Jerez

\$81m, it opened wineries in bouquet while retaining its Mexico and California and even characteristic flavour. The fook over a small winery in This technique is said to

This technique is said to reduce production costs, since took over a small wherey in Champagne Itself. Codorniu, its Caialan neigh-bour and arch rival, is the other leading producer of sparkling wine and two-thirds of its exports go to the US market. Enrope especially the UK, Bel-gium and, of course, France, it

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these sup foreign markets-particularly what compared with the in the European Community amounts spent on sales promotion and advertising by some of the bigger bodegas on their own where complete parity of trad-, ing is due in 1993. The UK is easily Spain's big-gest wine market, taking about 50 per cent of its exports, but over the past six years Spain's market share has halved, from account. In the fast-growing sparkling wine sector, (output up 50 per cent in the last five years) the market leaders Freix-net spent \$im in the US alone

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last year, including \$500,000 on a Christmas advertisment featuring Raquel Welch. Other expensive TV slots featured stars like Liza Minelli and Pla-12 to 6 per cent, while those of France and West Germany bave steadily advanced. Belatedly, perhaps, the Span-ish government and wine trade bave begun to monnt a more effective and co-ordinated publicity campaign, "Wines from Spain," the official prom-

stars like Liza kinetit and Fla-cido Domingo. Backed by a strong distribu-tion network, Freixnet claims that it is already the biggest-selling brand in the US, which absorbs 60-70 per cent of its foreign sales.

Institute for Export Promotion (INFE), is beginning to get realistic budget allocations. Unlike some other Spanish exporters, Freixnet says it bas no "image" problem in North America. In 1984 tha company The attack on the low-quality image originated in the UK, where "Wines from Spain " was first established in 1979. Its acquired the Rumasa wine group to become the world's achievements ... in - beosting largest producer of "méthode export volume may not look par- champenoise " sparkling wines. ticularly impressive so far, but Last year, with sales worth

describes as a harder nut to crack

Yet it expects the biggest market growth in Europe to be in the UK, where It has a strong distribution network. The US is naturally Codornin's main target. After a period of retrenchment because of distribution problems, it plans to step np its marketing effort with a \$2m pre-Christmas

with a \$2m pre-Christmas "advertising campaign on radio. Spanish sparkling wine pro-ducers are of course banned from selling their products as "champagne," a name jealously guarded by the French. By 1992 they will also have to drop the description "methode champe-noise" from their labels. They from their labels. They noise bave therefore eight years to promote "cava"-named from the cellars where the wines are produced and their own word for "champagne-type" wine.

Tor champagne-type white Until recently, the bulk of their production was sold in Spain, but the growing fashion for light and sparkling wines appears to be belping their penetration of foreign markets. Export sales have tripled over the past five years, But they will have to be extremely price com-

have to be extremely price com-petitive to combat the entrenched position and prestige of French champagne. In still wines—still easily tha largest sector—there are also

argest sector—inere are also concerns with a flair for market-ing. One of them is Miguel Tor-res, Spain's largest inde-pendently-owned wine pro-ducer, based at Vllafranca in the hills of Penedes south-west of Penedens Uts promotional of Barcelona. Its promotional activities centre on the strong personality of the chairman, Mr Mignel Torres, who bas an energetic approach to market-ing his products.

If any Spanish wines can claim to be the aristocrats they are some of the Riojas, named

after the relatively unknown region in the upper Ebro valley. Between 25 and 30 per cent of Rioja's output is exported, e trade which in 1985 yielded Pta7.3bn according to the Rioja

Exporters' Gronp. The Americans drink markedly less Rioja—less indeed than the Dutch or the Danes. One reason is thought to be that US consumers—as well as some younger Europeanswide Savim group) have turned increasingly to cultivating white

wines. Over the past three years The growing range or occur. Campo Viejo has invested about quality wines under the controlled denomination of oriwine to acquire the desired

widest scope for expansion; and over the next five years it plans to invest Ptas400m in setting np an import and distribution network in the difficult US market. Among fortified wines sberry is, of course, unique; but no survey of Spanisb wines would be complete without it. Outside its native Andalusia, little sberry is drunk in Spain compared with ine quantities abroad. consumed

It accounts for roughly 25 per cent of all Spanish wine exports, and retail sales worldwide are estimated to be worth abont £500m a year (four times the free-on-board export value because of the high taxes value because of the high taxes levied on sberry sales). This total comprises: 40 per cent medium sherry, 35 per cent cream, 15 per cent fino and 10 per cent oloroso/amontillado. World consumption, accor-ding to the Institute of Sberry Exporters, has risen from 24m bottles in 1950 to 190m bottles per annum today. Investment in

per annum today. Investment in brand edvertising totals over £30m per annum, more than for any other Spanisb export product.

Yet behind these handsome figures all is not as well as it might seem. First, sherry is in might seem. First, sherry is in danger of acquiring an image as an oldar person's drink. Young people are said to prefer long drinks to elegant, short aperitifs. Secondly, the sherry trade is worried that fashionable con-cern about bealth and diet and the perceived need to reduce calorie intake, may be leading people of all ages to turn to lighter rather than fortified wines.

Since 1978-79 the sherry mar-ket bas largely remained static "we are sailing through calm waters," said a spokesman for the Institute of Sberry Exporters. Seen against the perspective of the 7 per cent annual expansion batween 1953 and 1978, perbaps some consolidation was inevitable. But even so the sberry companies admit that "very low" profit margins are causing concern.

For wines in general, Spanisb membership of the European Economic Community does not look like making a substantial difference on the supply side. prefer a lighter, fruitier wine. Producers are receiving guaran-Partly in an effort to meet this feed EEC prices-bigher, of demand, go-ahead bodegas like course, than Spain's-for the Campo Viejo (part of the nation- equivalent of only 27.5m bectolitres of table wine, a quota ronghly equivalent to normal

Ptasi00m in electronicily con- controlled denomination of ori-trolled cold fermentation gin label are not affected at all. equipment which allows the Dovid Dudnick David Rudnick

and press and the first

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### Cinema

# A new freedom prevails

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BLASPHEMY !" cried The "BLASPHEMY !" cried L'Osservatore Romano. The strange object of deounclation by the Vatican oewspaper was Viridiana, the savage film satire directed by Luis Bunuel aod subsidised by the Spanish Government that won the Palme d'Or at the 1962 Cannes Film

Festival.

Franco

mythologising.

Behind tha Carlos Sauras of the Spanish film industry, with international acclaim and the Spanish ceosors who had vet-ted the Viridiane script befora shooting hegan, bad not spotted the filmed possibilities of scenes like the grotesque "Last Supper" of derelicts that shocked seositive filmgoers. plaudits of discriminating filmgoers in many countries for works like the 1975 Cria Cuervos-a portrayal of the painful conscionsoess-raising of a little girl io a household of decaying aod dying military and stifling repression—or the pounding The Church's condemnation of tha Bunuel film soon after a beaming Spanish official had accepted the Cannes prize, aod pnising Flamenco versions using Antonio Gades' dance enraged Geoeral Francisco troupe, of Garcia Lorca's Blood Wedding, and Marimee's Car-Sinca the eod of a Civil War men, queua many other young or youngish Spanish directors, makers of strongly-personal works that pay little heed to that embedded scar tissue in the fabric of the Spanish character, General Franco and his officials had viewed the cioema as a moral and political tool to be used by the régime to American-style commercial criteria, who want similar acclaim and the independent

and an image of Spain's nnassailable superiority. The Viridiana ontery brought financial status a strong international reputation can bring. Step by step, tied for now to official subsidies and official Industrial Credit Bank loans the unceramonious sacking of officials who had subsidised the

film, and a han on exhibition of. film, and a ban on exhibition of. the picture or mention of its name. The film was finally pre-miered in Spaln in 1977 wheo General Franco was dead aod politics and attitudes towards the cioema had shed the con-straints of self-conscious mythologistand that make the difference between dreaming of making a quality film and being able to make it, they are building a reputatioo. Deprived by the fiarce censor-

Deprived by the flarce censor-ship of the Franco years from making clesr-cnt film state-ments, directors who strove to make good films despite con-straints in their formetive years lo the 1960s and early 1970s, Banned foreign and Spanish films found an audieoce. Spanisb filmmaking that had sur-vived censorship, persistent petty official interference, bonts of public apathy and the then got the pent-up political and artistic vocabulary out of their systems in the free late despondency of producers and directors, began to march to a 1970s, are now trying to find a filmic modus vivendi that no londifferent drummer. The film industry is alive, well ger bas to be motivated by anger against censorship or exhilaraand living in censorship-free Spain today, The problem oow is to get the public away from their TV and video recorders tioo over release.

It is perbaps the most difficult into expensive, often uncom-fortable cinemas in sufficient must fied his individual voice eod style without beoefit of numbers to offer a better screen life for the deeply-persooal or scapegoats or catharsis.

the epic, the comic or intimately-tragic, the angry reviews of painful history or the slices of bigher or lower life " In 10 years, we have come 1,000 years," says Mannel Gutierrez Aragón, the 44-year-old director who made one fea-ture film in tha iate Franco era that are the infinite variety of Spanisb films each year. and with his post-Franco work has taken several international In 1985, 85 Spanisb films were produced—a startling figure in an era of world-wide cinema cri-sis. Nearly two dozen of these were of "special quality," ear-marked for beavy official sub-

sidies (up to 50 per cent of pro-duction costs) and assidnous operating in Spain after the dicnursing and promotioo by the tator's death, won international official Film Institute at prizes and praise and hombs io international festivals and the Spanlsh cloemas in which it Spanish film weeks that are was shown. Such furores no loo-affording the best of Spaolsh ger occur; and the softly-spoken, cinema more world exposure. bespectacled director no longer feels an urge to make political

films.

Spain 8

His La Mitad del Cielo (1986), subsidised by the Government, winner of this year's San Sehas-tian Film Festival Silver Shell and a box-office success in Spein (ecough to recover its \$1m cost and perbeps clear acother \$1m in profit) stars tha current darling of the Spanish screeo, Angela Molina as a youog, impoverishad street vendor who climbs her way into the status of smart Madrid restauratrice.

Cloeme is a sponge," Manuel Gutierrez Aragon says. " Every-thing passes through it-every type of subject and style." Prom-inent Spanish directors—José Luis Garci, who woo Spaio's first oscar in 1982 with Volver a Empezar, Mario Camus whose

La Colmena won at Berlin in 1982, Jaime de Arminan, whose painful 1984 Stico starred the ubiquitous Fernando Fernao Gomez, actor, playwright and acreeowriter who vies for the title of most-frequently-seen Spanish actor, with Fernando Rey and Francisco "Paco" Rey and Francisco "Paco" Rabal, Montxo Armendariz, the

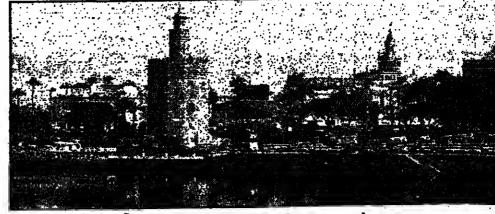
Basque director whose debut "Tasio," a chronicle of Navarre rural life, received high critical using Fernando Rey in Padre Nuestro (1985), Jaime de Arminan. Jaime Chavarri, Antoni Ribas (a Catalan director emerging from a region that onca boasted a fiercely-iodependent Barcelona, film movement virtually destroyed by. Francoist trammels), Luis Berlenga, Jose Luis Borau, many others helong to s breed thet needs to make phase wheo there are no films as eagerly as some people excuses left, and a film-maker need to drink spirits.

> Are too many films made in Spain? Over 100 a year in the Franco era (including dozens of subsidised co-productions like Spaghetti Westerns made in Almeria with minimal Spanisb content), over 60 this year is more than economic criteria would approve of.

The new director of the offi-clal Film Institute, Mr Manuei Meodez Leyte, believes fewer, more polisbed and more commercially-viable features would be a good idea. Soaring produc-

be a good mea. Soaring produc-tion costs—from an average of Pta 16m in 1962 to an average of Pta 80m (£400,000) in 1965 and reliance on state subsidies and international promotion make uneasy film set-fellows, often.

Prestige and beavy bank loans can only be compatible when



Financial Times Monday December 1 1986

Seville's Golden Tower which now houses a naval museum

# Updating for the image

Jan-Aug 1985 1986 Change

(m) (m) (%)

4.89 5.92 21.0

1.70 1.67 -1.4

1.13 1.24 10.1

0.68 0.73 7.5

0.72 0.51 -28.9

0.39 0.42 7.5

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Seville Secovia

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7.96 8.32

4.17 4.37

0.84 0.90

0.77 0.81

Tourism

IT IS HARD to overestimate the importance of toorism to the Tourists to Spain Spanish economy, Primarily, it makes a critical contribution to the balance of payments; ceoby country of origin tral hank figures show that in the first nine months of 1986 Country

Spaio's tourist earoings (\$9.1bn) comfortably exceeded its trade deficit and lifted its overall cur-France Portuga rent account well into surplus. The Minister for Tourism, Mr United Kingdom 3.47 4.45 28.3 Ignacio Fuejo, axpects tourist earnings for the year as a whole West Germany to reach \$11.5bo, \$3.35bn more than in 1985. Allowing for the Morocco Netherlands fact that tourist earnings are calculated in depreciating dol-Belgium lars, even in peseta terms, says Mr Fnejo, tourist revenue is up

Italy this year by around 18 per cent Switzerland on 1985. Tourism represents 10 per cent of Spanish gross domestic US product, and provides work for ao estimated 11 per cent of the employed workforce (though it is of course hard to be precise, Sweden Denmark Norway sinca tonrist activities do not exclusively serve tourists). If Japan official forecasts prove correct, and the number of tourists visit-Total all countries ing Spain reaches 29m this year (a growth of 7.4 per cent), it would according to the mioister meao an increase of about 3 per (including not Osted above) tourists). Toledo and Salamanca rather cant in sectorel employment, at a time when job opportunities in the economy as a whole are than in the seasida resorts. So although in crude num-

bers, the sbarp increase in Brit-isb tonrists (apparently recoscarce. But even if tourism is Spain's vered from the mugging scares of 1985) has more than compenblggest foreign exchange earner and economic mainstay, it still faces problems, not least of cost sated for the drop in US tour-ists, tha loss has not been made faces problems, not least of cost control. Labour costs and social security contributions have risen, putting up botel prices. Food and restaurant prices are good inland, since Britons are predominantly seaside package visitors who also on the whole spend less than Americans. elso rising disturbingly, partly On the other hand, some pro-

under pressure from value added tax, which Spain had to edopt on joining the European vinces in northern Spain close to France, like Cataluna and Community,

According to a recent OECD study, Spain is second among European nations only to France, in its tourist accommodation capacity, with aimost 15 per cent of cepacity in the EEC. Tha country continues to attract large numbers of tonrists, most seeking tha by-now traditional sybaritic pleasures

table. Essentially the same applies to visitors from other neighbouring countries, Portu-gal and Morocco. of the far

spent on promotion, while the expansion and improvement of botel capacity comes next in

Mr Fuejo acknowledges that whatever the OECD's aggregates might imply, Spaio needs more as well as better hotels if it is to succeed in dispersing its summer migrants around the coun-tryslde. In an attempt to encourage private investment, the state industrial holding Insti-tuto Nacional de Industria (INI) has been divesting itselfofsome of its hotels in the state-owned Entursa chain, and passing on others to the state-owned Parador network.

Most <sup>h</sup> paradores nacionales " are formar castles or convents converted into botels. Hitherto loss-makers, this year it is hoped the 88 paradors might finally make a small profit. In the past couple of years hotel investment has taken off, with UK interests (Bass and Trust Hoose Forte) active at the lux-Hoose Forte) active at the lux-ury end of the market. But there is still a shortage of good, reasonably-priced hotels in Spain, especially in small undiscovered places which the Governmeot would like to put on the tourist map.

The other need is for improved transport and communications. Spain still does not have a motorway network comparable to those of France and Italy.

In an effort to remedy this, the Government is advancing the projected completion of its road development plan from 1992 to 1990. It is also planning to invest more than \$1bn a year on the railways between now and the end of the century. Tha rail net-work could benefit from improvement; faster and more reliable trains with proper

to France, like Cataluna and improvement; faster and more Cantabria, have reported reliable trains with proper record numbers of tourists, dining car facilities would many of whom will have been attract more peripatetic tour-short-stay Frencb visitors ists. whose inflated numbers might give a slightly misleading charge the image of Spain, to importance in the tourist league of the kind who nowadays go ou of the kind who nowadays go ou motoring holidays to Tuscany or the Dordogne. Nevertheless, the legendary Spain of Hemingway is dying hard. The corrida con-

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the bank is owned by the state and the prestige belps to burn-This certainly applies to the ish the latter 20th century image of Spain as a place where not ooly Madrid but Basque or Catamassed battalions of British, German aod other northern sunworshippers, but it applies less to traosatlaotic visitors who go lan film makers can work in a more for Spain's historic, cultu-rai end artistic attractions (Miami is a lot nearer than freedom that gives deep personal satisfaction but may not-In fact, rarely does-poll in the crowds at the box office. Bot if Beoidorm).

creatioo is the better part of value, Spaio's filmmakers are potent assets.

Entrance and exit door to E.E.C.

world.

mention:

América and Africa.

This year bowever has seen a sharp drop in the number of American tourists, in line with the trend elsewhere. The loss

and 1990, Pta 6.3bn per annum is Diana Smith has heeo felt mainly in clties earmarked for investment in tourism. More than half is to be

This year bas certainly been a vintage year for the package holiday trade, but the Spanish borrify others. holiday irade, but the Spanish Government is anxious to entice to have the spectacla banned people away from the beaches hlame-probably wrongly-its and spread the benefits of tour-ism more evenly around the patronage of foreign tourists.

country. "Even Spain's prodigal sun is afficionado—said he would like outshone by the magnificeoce of to see the more crnel aspects its cultural riches" the latest toned down, but as a folk fiesta tourist advertisements pun-bullfighting is likely to remain deenly moted for some time.

tourist advertisements pun-ningly proclaim. Between now deeply rooted for some time.

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